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MITSUBISHI CS-31301 OWNER'S MANUAL

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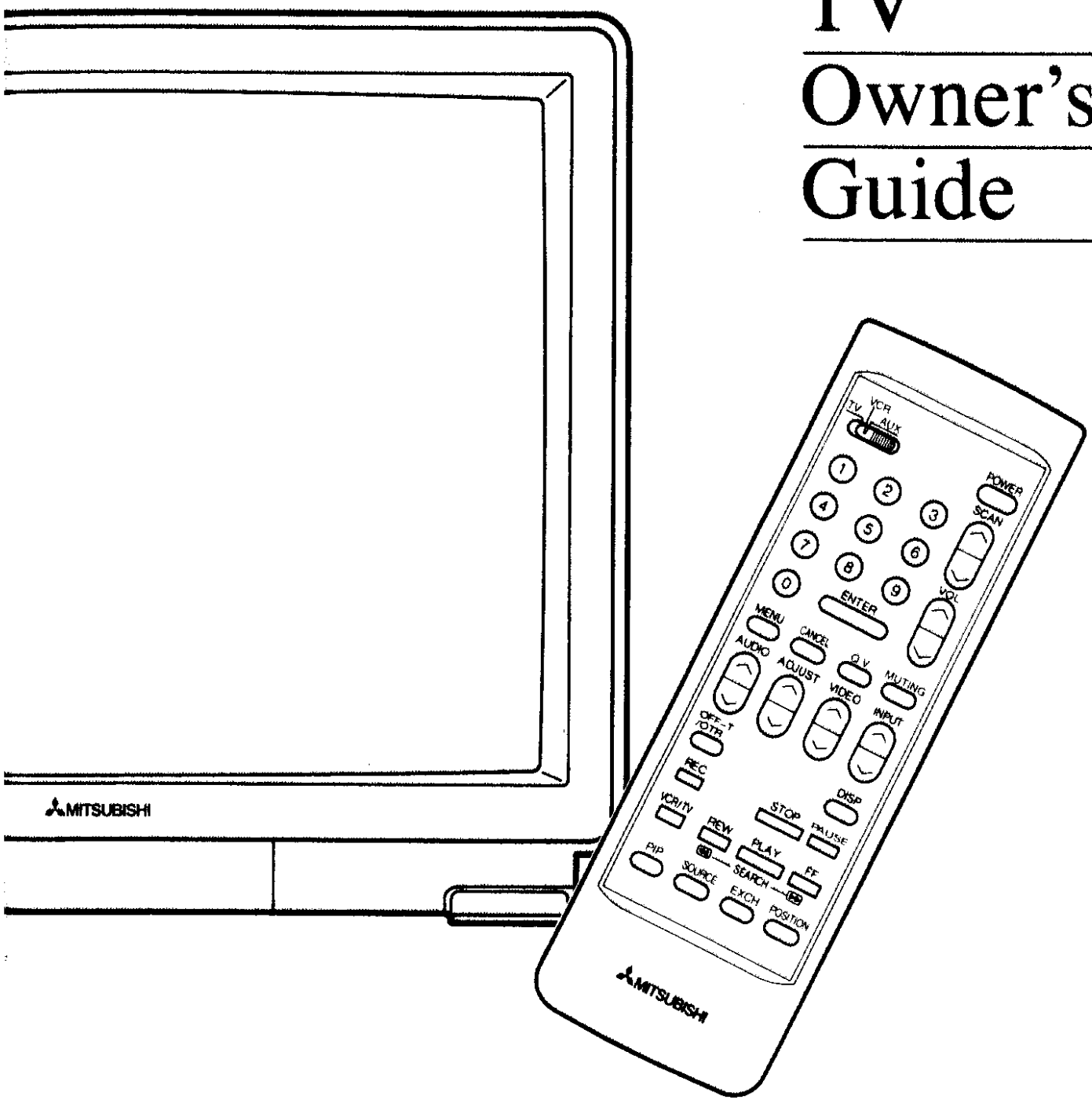
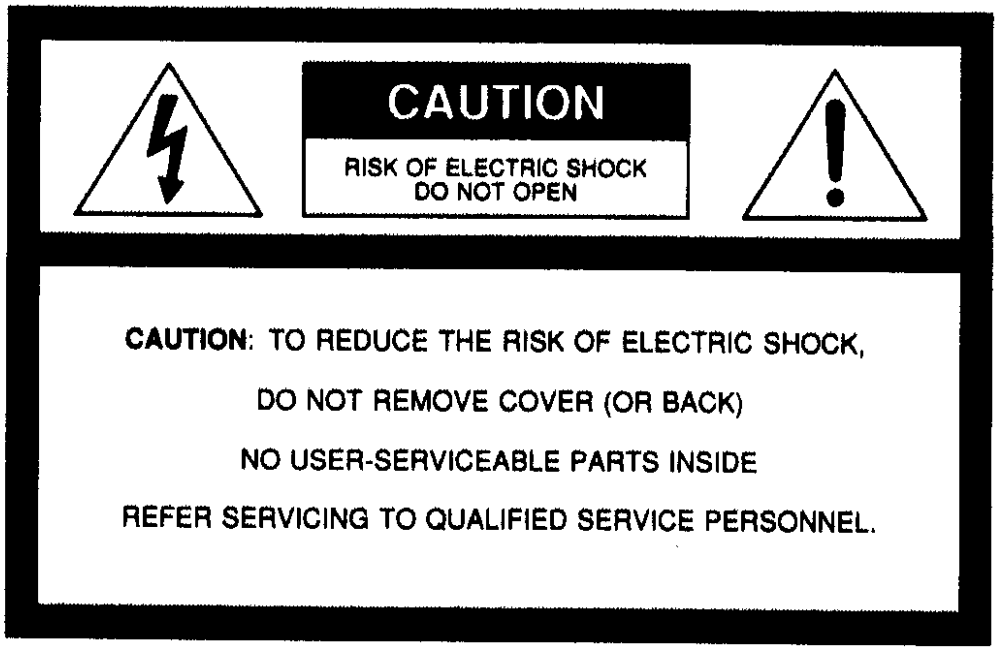
MITSUBISHI

CS-31301
CS-35301

TV Owner's Guide




CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE TO CATV SYSTEM INSTALLER:

THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER'S ATTENTION TO ARTICLE 820-40 OF THE NEC THAT PROVIDES GUIDELINES FOR PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.

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IMPORTANT SAFEGUARDS

PLEASE READ ALL THESE INSTRUCTIONS REGARDING YOUR TELEVISION SET AND RETAIN FOR FUTURE REFERENCES. FOLLOW ALL WARNINGS AND INSTRUCTIONS MARKED ON THE TV RECEIVER.

1. Read Instructions
   All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions
   The safety and operating instructions should be retained for future reference.

3. Heed Warnings
   All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions
   All operating and use instructions should be followed.

5. Cleaning
   Unplug this TV receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

6. Attachment and Equipment
   Never add any attachments and/or equipment without approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

7. Water and Moisture
   Do not use this TV receiver where contact with or immersion in water is a possibility. Do not use near: bath tubs, wash bowls, kitchen sinks, laundry tubs, swimming pools, etc.

8. Accessories
Do not place this TV receiver on an unstable cart, stand, tripod, bracket, or table. The TV receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod bracket, or table recommended by the manufacturer, or sold with the TV receiver. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

S 3126 A

9. Ventilation
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the TV receiver and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the TV receiver on a bed, sofa, rug, or other similar surface. Nor should it be placed over a radiator or heat register. If the TV receiver is to be placed in a rack or bookcase, ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

10. Power Sources
    This TV receiver should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.

11. Grounding or Polarization
    For your safety this TV receiver is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. Power-Cord Protection
    Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. Lightning
    For added protection for this TV receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to lightning and power-line surges.

14. Power Lines
    An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

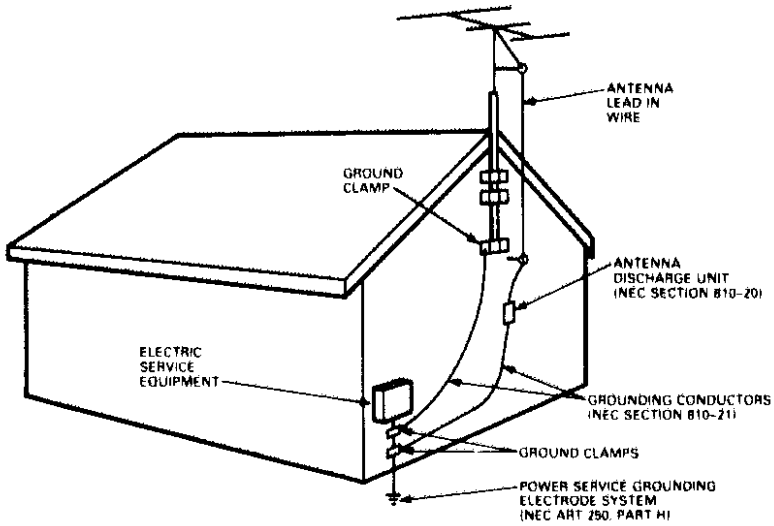
15. Overloading
Do not overload wall outlet and extension cords as this can result in a risk of fire or electric shock.

16. Object and Liquid Entry
Never push objects or pour any liquid into this TV receiver through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV receiver.

17. Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the TV receiver be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
NEC - NATIONAL ELECTRICAL CODE

18. Servicing
Do not attempt to service this TV receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. Damage Requiring Service
Unplug this TV receiver from the wall outlet and refer servicing to qualified service personnel under the following conditions:
(a) When the power-supply cord or plug is damaged.
(b) If liquid has been spilled, or objects have fallen into the TV receiver.
(c) If the TV receiver has been exposed to rain or water.
(d) If the TV receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV receiver to its normal operation.
(e) If the TV receiver has been dropped or the cabinet has been damaged.
(f) When the TV receiver exhibits a distinct change in performance - this indicates a need for service.

20. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

21. Safety Check
Upon completion of any service or repairs to this TV receiver ask the service technician to perform safety checks to determine that the TV receiver is in a safe operating condition.

Welcome to Mitsubishi

Congratulations on your purchase of the Mitsubishi CS-31301 and CS-35301. Your TV is designed for superb viewing pleasure as well as continued reliability.

To familiarize you with your new CS-31301 and CS-35301 and owner's guide, we suggest that you read through the preface, which provides the following important information.

- **Summary of Special Features**
- **Unpacking Your TV**
- **What's in Each Chapter**
- **Some Conventions Used in This Guide**

Mitsubishi has strived to create your CS-31301 and CS-35301 so that it will bring you years of viewing enjoyment. Similarly, your owner's guide is designed with a "user friendly" philosophy that will help you take advantage of all of your equipment's features.

Once again, thank you for selecting our product and welcome to Mitsubishi!

◆ Summary of Special Features

Your top rated Mitsubishi CS-31301 and CS-35301 delivers:

- **181-Channel Capacity**—programs up to 181 channels, ensuring your continued viewing pleasure as cable services continue to expand.
- **Two-Speaker Sound System**—a special speaker system produces clear, stereo sound. The CS-35301 has a four-speaker system.
- **Expanded Sound Capability**—allows you to connect the TV to an external audio system for enhanced listening pleasure.

In addition to the standard features found on most advanced TVs, Mitsubishi is proud to offer the following distinctive features:

- **Remote Control with VCR/TV/AUX Function**—uses a single remote control transmitter for the television, select Mitsubishi VCRs, and also some VCRs and cable boxes of other manufacturers. The function of the remote control is changed by simply flipping a switch.
- **Control Identification by On-Screen Displays**—indicates the status of various functions and appears whenever a function is adjusted.
- **On-Screen Menu**—contains options and instructions, making it easy to use many of the CS-31301 and CS-35301's special functions.
- **Closed Caption Decoder**—supplies you the text information along with the regular broadcasts.
- **Television Data Services**—(also known as "TVDS") allow broadcasters to supply you with the time of day channel information, and program information. You can display this information on screen.
- **Picture-In-Picture Mode**—allows you to view two different sources at the same time.

Each of these features will be explained in more detail in Chapter 3, "Operating Your TV" and Chapter 4, "Using the Special Features."

◆ Unpacking Your TV

What you will find

As you unpack your new CS-31301 and CS-35301, please check to be sure that along with the TV, the following items are included:

- an owner's guide and warranty card,
- a registration card,
- a remote control transmitter, and
- a set of two Duracell AAA size batteries for the remote control.

A few suggestions

Before you hook up your new CS-31301 and CS-35301, please take a few minutes to:

1. Complete the registration card. The registration card asks for the TV's serial number, which you'll find on the back of the unit.
2. Keep the box and packing materials for future use.
3. File your sales receipt and warranty card.
4. Place the TV on a stable surface with sufficient lighting to do the hook-up.

◆ What's in Each Chapter

Here's what you will find in this owner's guide:

Chapter 1, "Getting to Know Your TV," introduces you to the location and functions of the buttons and controls of your TV.

Chapter 2, "Connecting Your TV," explains how to connect a VCR, antenna, and other equipment to your TV.

Chapter 3, "Operating Your TV," provides the step-by-step instructions you need in order to use your TV.

Chapter 4, "Using the Special Features," explains how to use some of the special features of the CS-31301 and CS-35301.

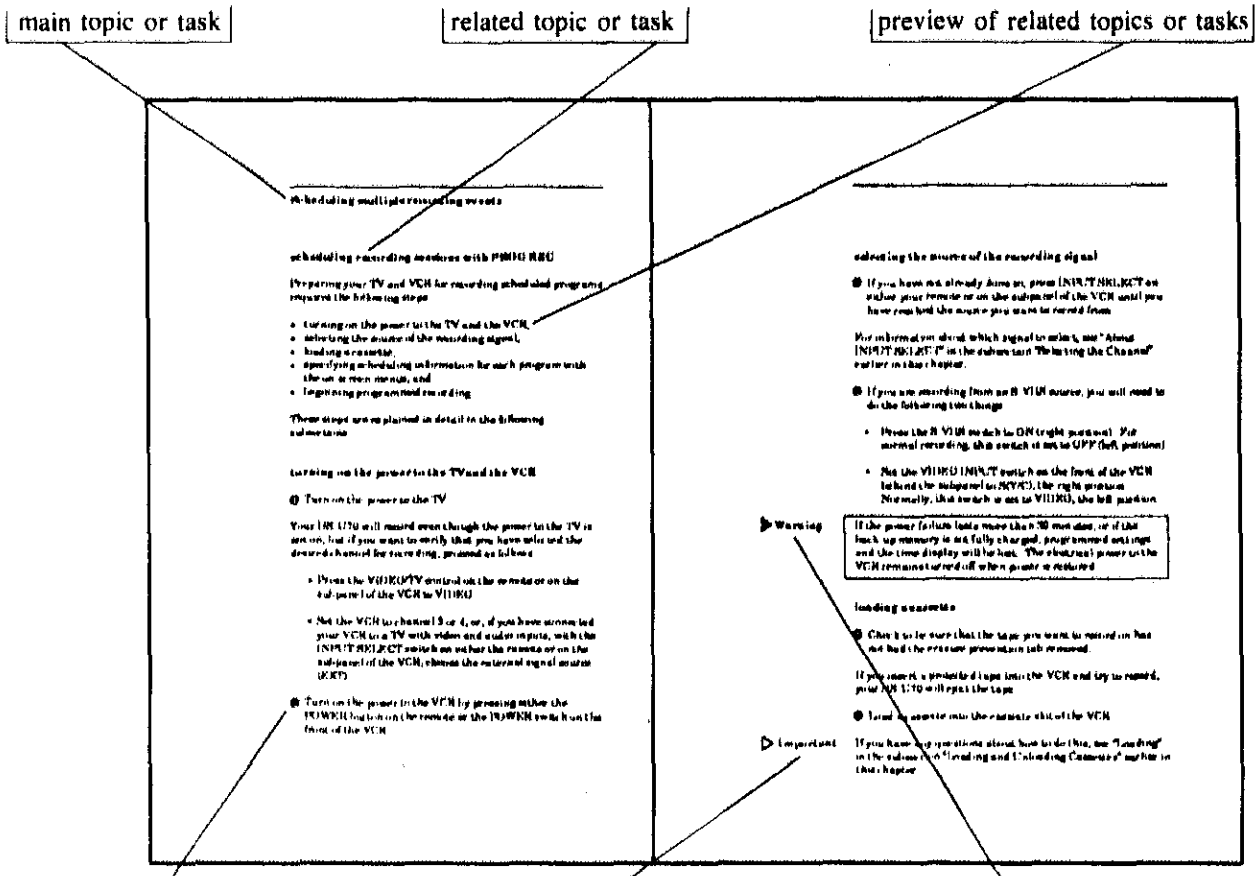
Chapter 5, "Troubleshooting," summarizes the problems you may have along with the suggestions for remedying these problems.

The appendix explains an automatic procedure for the parental lock.

◆ Some Conventions Used in this Guide

Mitsubishi has gone to great effort to provide users with an easy-to-follow, useful owner's guide. Different types of information is treated in different ways.

Users should read information labelled important and information which is boxed and labelled warning. The owner's guide uses these terms sparingly, and all information highlighted in this manner should be read carefully.



❶, ❷, etc.

Procedures, the step-by-step instructions on how to accomplish a particular task, are signalled by white numbers set in a black background.

▷ Important:

This cue indicates information critical to the operation of your new TV.

▶ Warning

This cue alerts you to information describing dangerous situations which could ruin your equipment or cause electrical shock.

CHAPTER 1

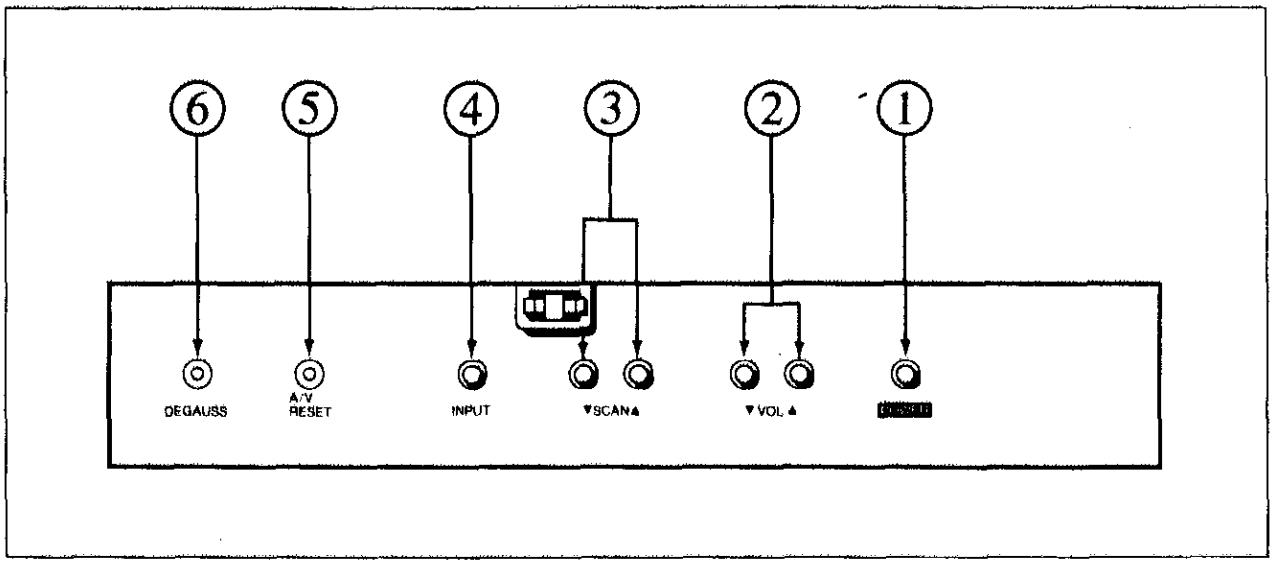
Getting to Know Your TV

Now that you've unpacked your TV, read through the safety information, and glance at the overview explaining how this owner's guide is organized, it's time to become familiar with the buttons and controls you'll be using when you operate the TV. This chapter will introduce the range of options available by using the buttons on the front panel of the TV or the remote control. It also offers some general guidelines for using the remote control.

Most functions can be controlled by using either the front panel or the remote control, but certain specialized functions require the use of one or the other. This chapter, which will familiarize you with the full range of button functions, contains the following sections:

- **Overview of the Front Panel**
- **Overview of the Remote Control**

◆ Overview of the Front Panel



① **power button (POWER)**
Use to turn the TV on or off.

② **volume controls (VOL)**
Press the ▲ button to turn up the volume and the ▼ button to turn down the volume.

③ **channel controls (SCAN)**
Use the ▲ button to switch to a channel with a higher number and the ▼ button to switch to a channel with a lower number.

④ **input button (INPUT)**
Use to select the input source to be viewed:

- TV or
- Ext.

⑤ **A/V reset button (A/V reset)**
Press the reset all audio and video functions except volume, reception mode (Stereo/SAP/Mono), and TV Speaker (on/off) to their normal level or setting.

⑥ **degauss button**
Use this button if a color impurity is present.

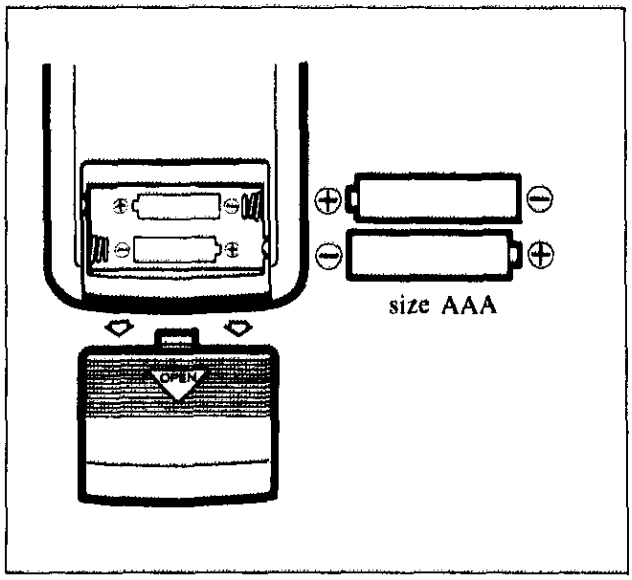
◆ Overview of the Remote Control

Getting ready to use the remote control

This section explains general information about using the remote control.

installing the batteries

1. Take the box containing two AAA size batteries from the packing bag.
2. Remove the back cover of the remote control by pushing in the direction of the arrow.
3. Load the batteries as indicated in the illustration, making sure that they are positioned correctly (+ to + , and - to -).
4. Replace the back cover of the remote control.



For best results, use new Duracell AAA (MN2400) batteries.

some do's and don'ts

To ensure that your remote control will continue working properly, follow these guidelines.

- Don't press two or more buttons at the same time.
- Don't allow the remote control to get wet or become heated.
- Avoid dropping the remote control on a hard surface.
- When cleaning the remote control, don't use any harsh chemicals. Use only a soft, slightly moistened cloth.

general instructions

When using the remote control to operate the TV or VCR, follow these procedures:

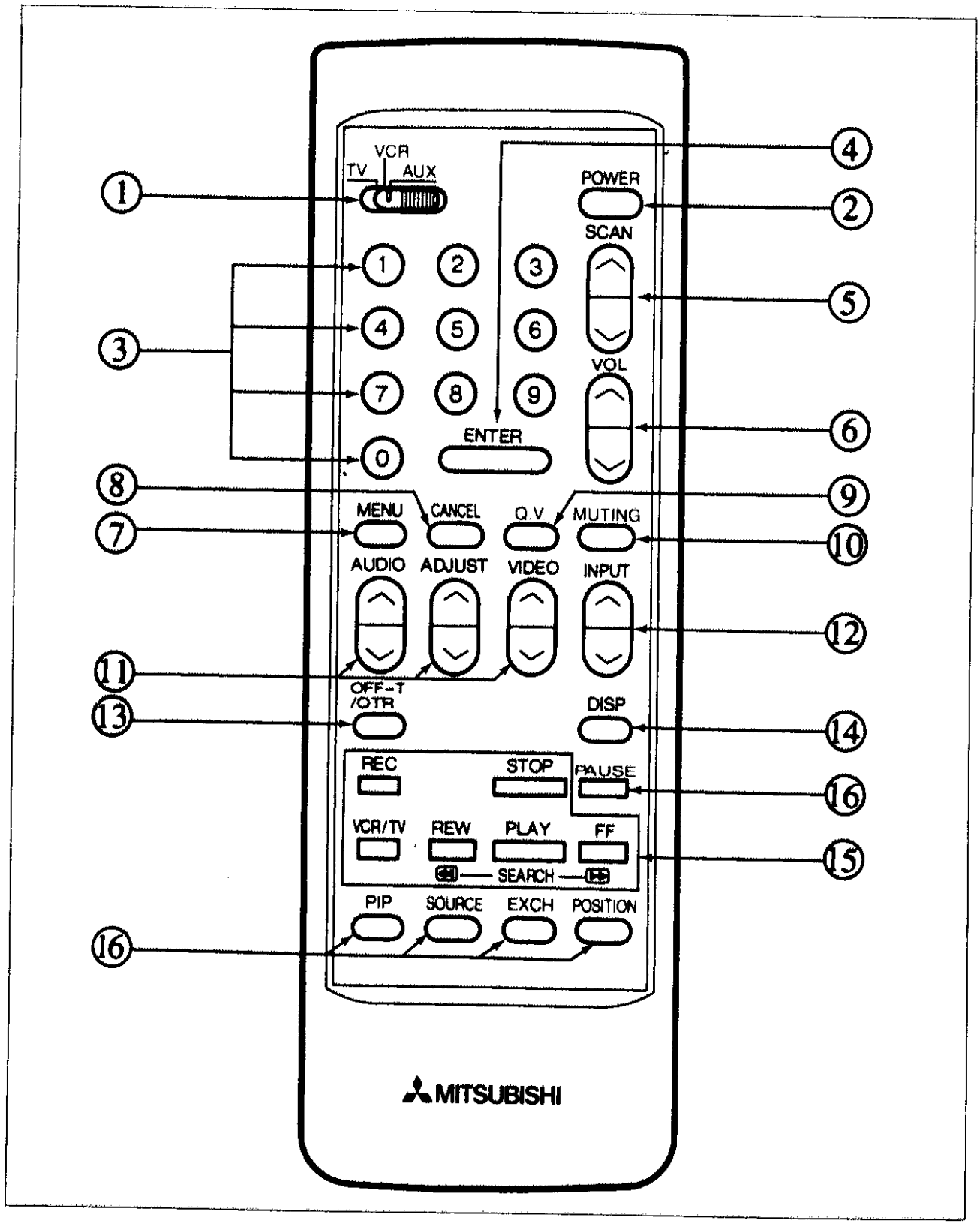
1. Be within 20 feet of the TV.
2. Point the top of the remote control toward the TV.
3. Press the appropriate button or sequence of buttons.

guidelines for using batteries

- Don't use a new battery with an old one.
- Don't heat, disassemble, or throw batteries into a fire.

The following section explains more about the range of options available by using the remote control.

Remote control buttons and functions



① **TV/VCR/AUX switch (TV/VCR/AUX)**
Set to "VCR" or "AUX" to operate either the VCR or the cable box and "TV" to operate the TV.

② **power button (POWER)**
Use to turn the TV on or off.

③ **number buttons (0-9)**
Use to select a channel number and to enter the parental lock code.

④ **enter button (ENTER)**
May be used after selecting a channel number, an item from the on-screen menu, parental lock code, or channel for super quick view.

⑤ **channel control (SCAN)**
Press the top part of the button to change to a channel with a higher number; press the bottom part to change to a channel with a lower number.

⑥ **volume control (VOL)**
Press the top part of the button to turn up the volume; press the lower part of the button to reduce the volume. This button works for the TV even if the TV/VCR/AUX switch is set to "VCR" or "AUX."

⑦ **menu button (MENU)**
Projects an on-screen menu with additional instructions for special functions.

⑧ **cancel button (CANCEL)**
This button is used to cancel the entered channel number within three seconds, to erase the parental lock code during the parental lock sequence, and to clear the channel programmed into super quick view memory. It is also used with the TV menu.

⑨ **quick view (Q.V.)**
Press to switch between the current channel and the last one viewed. When the super-quick-view tuning is set, it is used to view selected channels programmed into super quick view memory.

⑩ **mute control (MUTING)**
Use to turn the sound off completely or restore it to its original volume. This button works for the TV even if the TV/VCR/AUX switch is set to "VCR" or "AUX."

⑪ **audio and video controls**
These buttons are used in pairs to adjust features of the image or sound (other than volume) with a two-step process: using one of the AUDIO or VIDEO buttons to select a function, and then using the ADJUST button.

- **audio function button (AUDIO)**—Use to select one of the following audio functions:
  -stereo/SAP/mono,
  -bass,
  -treble,
  -balance,
  -expansion on/off, or
  -speaker on/off.

- **video function button (VIDEO)**—Use to select one of the following video functions:
  -tint,
  -color,
  -contrast,
  -brightness,
  -sharpness,
  -color temperature low/middle/high,
  -closed caption decoder when muting/off/1/2/3/4/Text 1/Text 2/Text 3/Text 4.

- **adjust button (ADJUST)**—After selecting an audio or video function, use to adjust the function. The ADJUST button can be used to:
  -turn the function on or off (e.g., speaker),
  -increase or decrease the function (e.g., color),
  -shift from one end of a scale to the other (e.g., balance), or
  -select a position (e.g., stereo).

⑫ **input button (INPUT)**
Use to select the input source to watch:

- TV or

- External.

⑬ **off-timer button (OFF-T/OTR)**
Use to program the TV to turn off automatically at a later time.

⑭ **display button (DISP)**
Use to view an on-screen summary of the current TV settings for TV or cable functions, and the display related to Television Data Services (TVDS).

⑮ **VCR buttons**
Can be used to control most Mitsubishi VCRs. (See your VCR's owner's guide for additional information). These buttons work with the VCR even if the TV/VCR/AUX switch is set to "TV" or "AUX."

⑯ **picture-in-picture controls**
Use to control the special picture-in-picture (PIP) function.

- **PIP button (PIP)**—Press to see the reduced PIP image or cancel it.
- **pause button (PAUSE)**—Press to freeze the reduced PIP image or cancel the image freezing.
- **source button (SOURCE)**—Press repeatedly to switch the source of the reduced PIP image between the TV and the external input.
- **exchange button (EXCH)**—Press to switch back and forth between the reduced PIP image and the main image.
- **position button (POSITION)**—Press to move the position of the reduced PIP image.

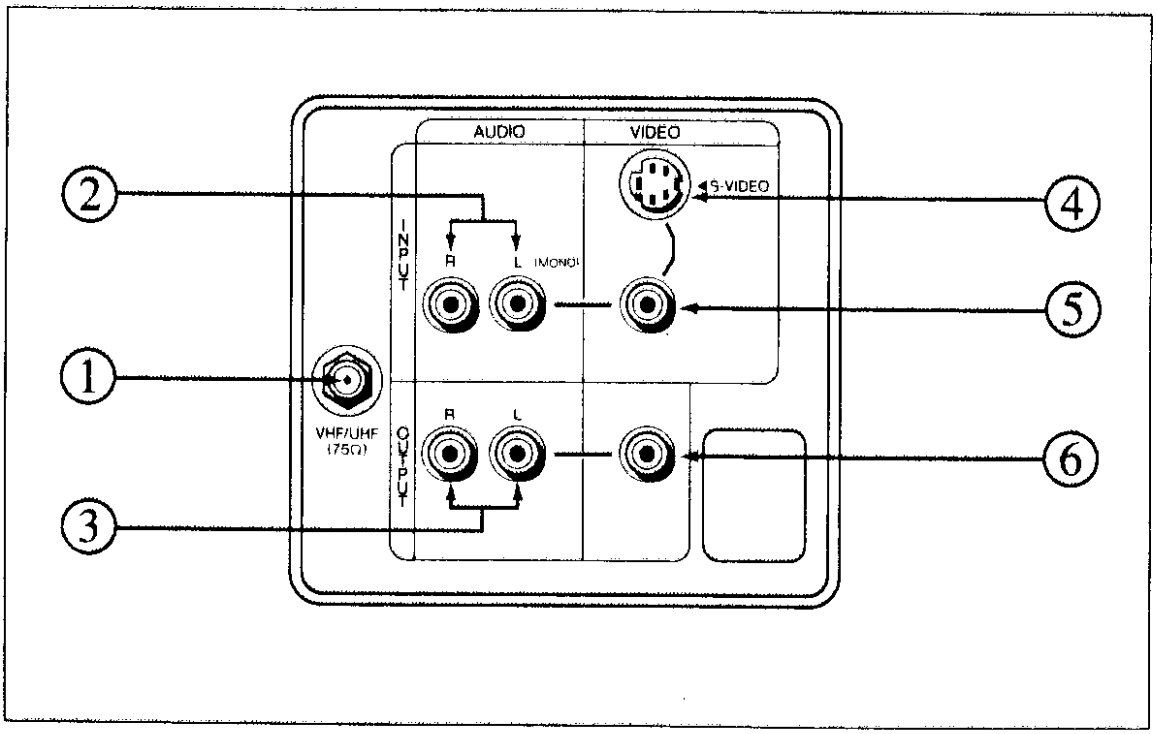
CHAPTER 2

Connecting Your TV

This chapter offers step-by-step instructions for completing the most common hook-ups. It contains the following sections:

- **Overview of the Back Panel**
- **Basic Connections**

◆ Overview of the Back Panel



① **antenna terminal**
Use to connect antennas.

② **audio input terminals**
Use to connect the audio from a VCR or another component.

③ **audio output terminals**
Use to connect the audio of the TV to an audio system.

④ **S-VIDEO input terminal**
Use to connect a Super VHS (S-VHS) VCR to the TV.

⑤ **video input terminal**
Use to connect the video from a standard VCR or another video component.

⑥ **video output terminal**
Use to connect the video of the TV to a VCR, video Copy Processor, etc.

▷ **Important:** EXT automatically switches to S-VIDEO INPUT when an S-VHS VCR is connected to the S-VIDEO INPUT terminal.

◆ Basic Connections

This section describes the equipment and procedures needed for basic hook-ups. (For more complex hook-ups, contact your dealer or local cable company.) The connections explained in this section are the following:

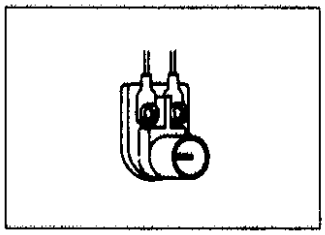
- **TV + antenna or cable without a decoder box,**
- **TV + antenna or cable with a decoder box,**
- **TV + separate UHF and VHF antennas,**
- **TV + VCR + antenna or cable without a decoder box,**
- **TV + VCR + antenna or cable with a decoder box, and**
- **TV + audio system.**

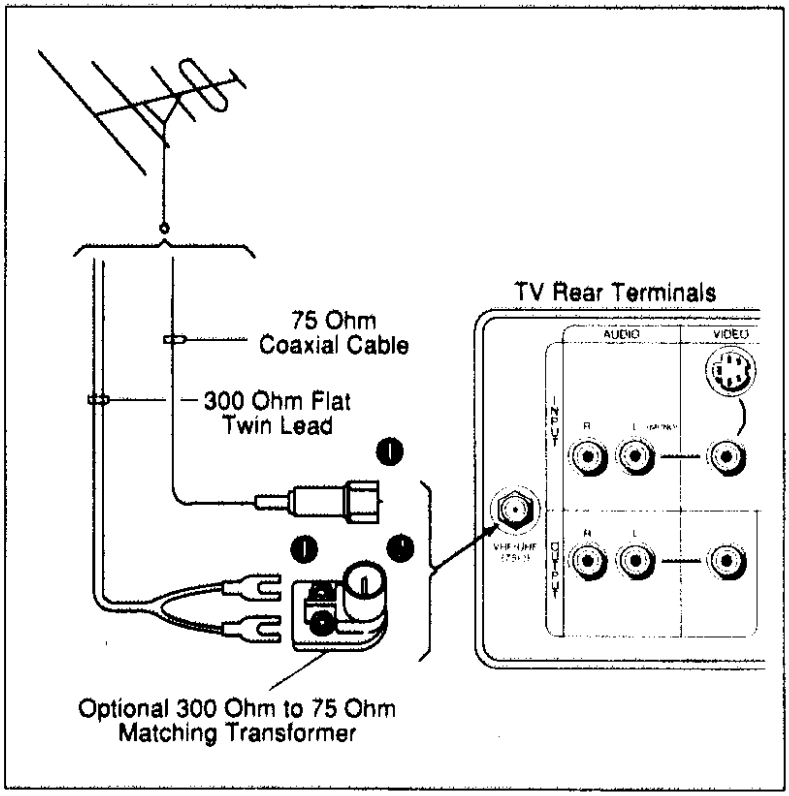
TV +antenna or cable without a decoder box

equipment you'll need

If you have a standard 75-ohm coaxial cable, you will not need additional equipment. If your antenna has two leads (called flat twin leads), you'll need:

- 1 75-300 ohm transformer.





connecting a cable

❶ Push or screw the end of the cable onto the antenna terminal on the television.

connecting an antenna with flat twin leads

❶ Use a screwdriver to connect the leads to the transformer.

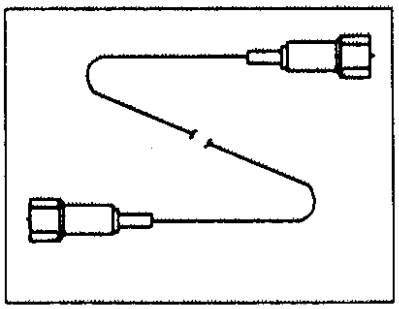
❷ Push or screw the transformer onto the antenna terminal on the television.

TV + antenna or cable with a decoder box

equipment you'll need

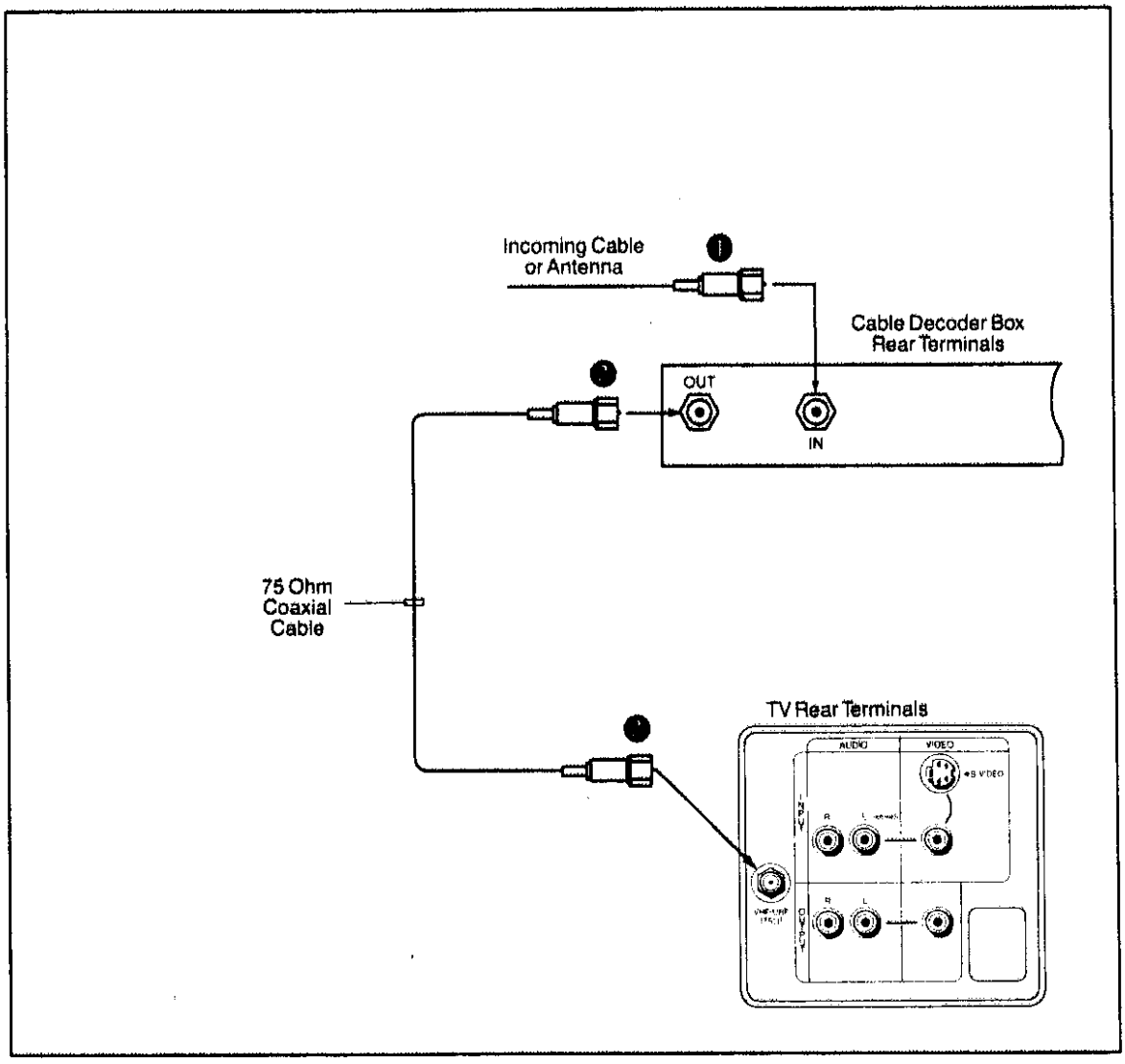
Use this hook-up if you need a decoder box to descramble cable signals. This hook-up will allow you to use the remote-control to change channels. To complete the hook-up, you'll need:

- 1 length of 75 ohm coaxial cable.



procedure

1. Connect the incoming cable to the IN terminal on the decoder box.
2. Connect a coaxial cable to the OUT terminal on the decoder box; connect the other end of this cable to the antenna terminal on the back of the TV.

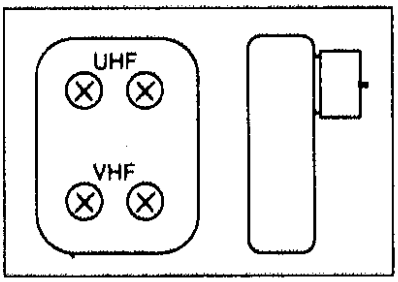

Incoming Cable
or Antenna
1
Cable Decoder Box
Rear Terminals
2
OUT
IN
75 Ohm
Coaxial
Cable
3
TV Rear Terminals
AUDIO
VIDEO
S VIDEO
INPUT
OUTPUT

TV + separate UHF and VHF antennas

equipment you will need

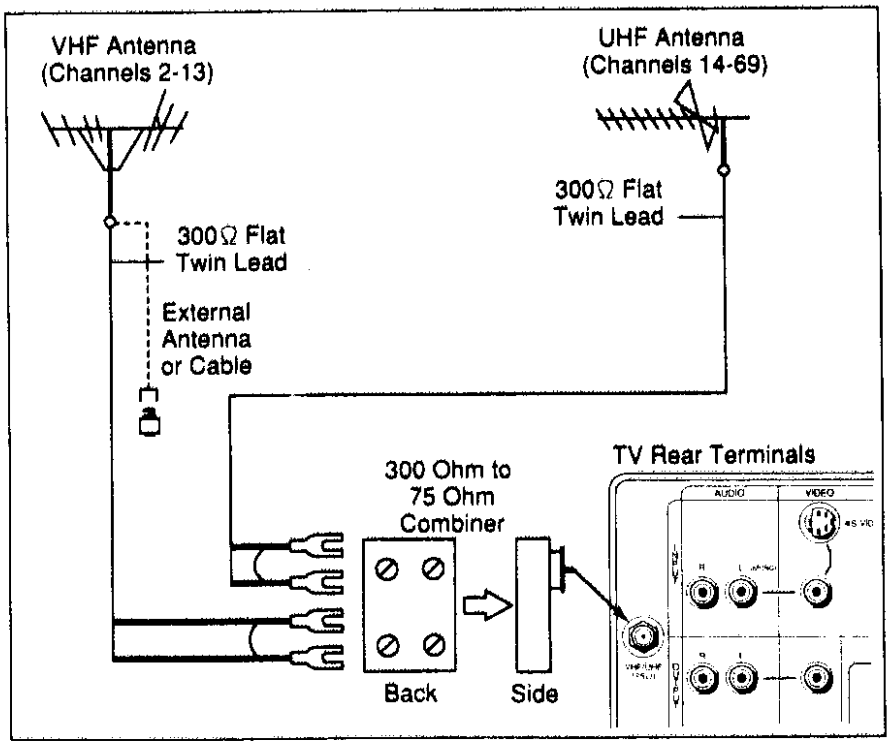
If UHF and VHF signals are brought into your home with two separate antennas, you'll need to combine the antennas into a single wire to connect them to the TV. To do this you will need a UHF/VHF combiner. (There are different combiners for different kinds of leads. Check with your local electronics store for the kind of combiner you need.)

Pictured below is a standard combiner.



To connect separate UHF and VHF antennas to your television:

1. Connect the antenna leads to the UHF/VHF combiner.
2. Press the combiner onto the antenna terminal on the television.

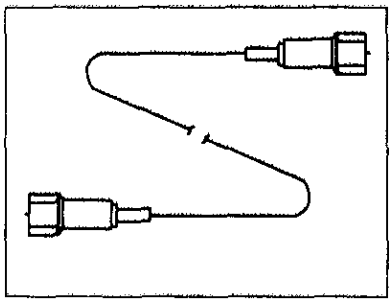


TV + VCR + antenna or cable without a decoder box

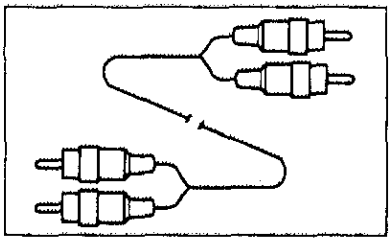
equipment you will need

You may want to connect a VCR along with your antennas or cable. To complete this hook-up, you may need the following equipment.

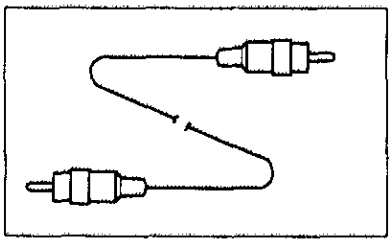
- 1 length of coaxial cable,



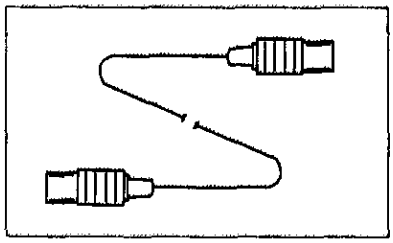
- 1 set of RCA pin-type audio cables,



- 1 RCA pin-type video cable, (if connecting a standard VCR), or



- 1 Super Video cable (S-VHS) for Super VHS VCRs.



procedure
(see illustration on the following page)

1. Connect the incoming cable or antenna to ANTENNA IN terminal on the VCR.

2. Connect one end of a coaxial cable to the ANTENNA OUT terminal on the VCR.

3. Connect the other end of the cable to the antenna terminal on the TV.

4. Connect an RCA pin-type video cable to the VIDEO OUT terminal on the back of the VCR. Connect the other end of this cable to the VIDEO INPUT terminal on the back of the television.

▷ **Important** If you are connecting a Super VHS (S-VHS) VCR, use a Super Video cable instead of an RCA pin-type video cable. Connect a Super Video cable to the S-VIDEO OUT terminal on the VCR. Connect the other end of this cable to the S-VIDEO INPUT terminal on the back of the television.

5. Connect a set of RCA pin-type audio cables to the AUDIO OUTPUT terminals on the back of the VCR. Use the red cable to connect the right (R) channel and the white cable for connecting the left (L) channel.

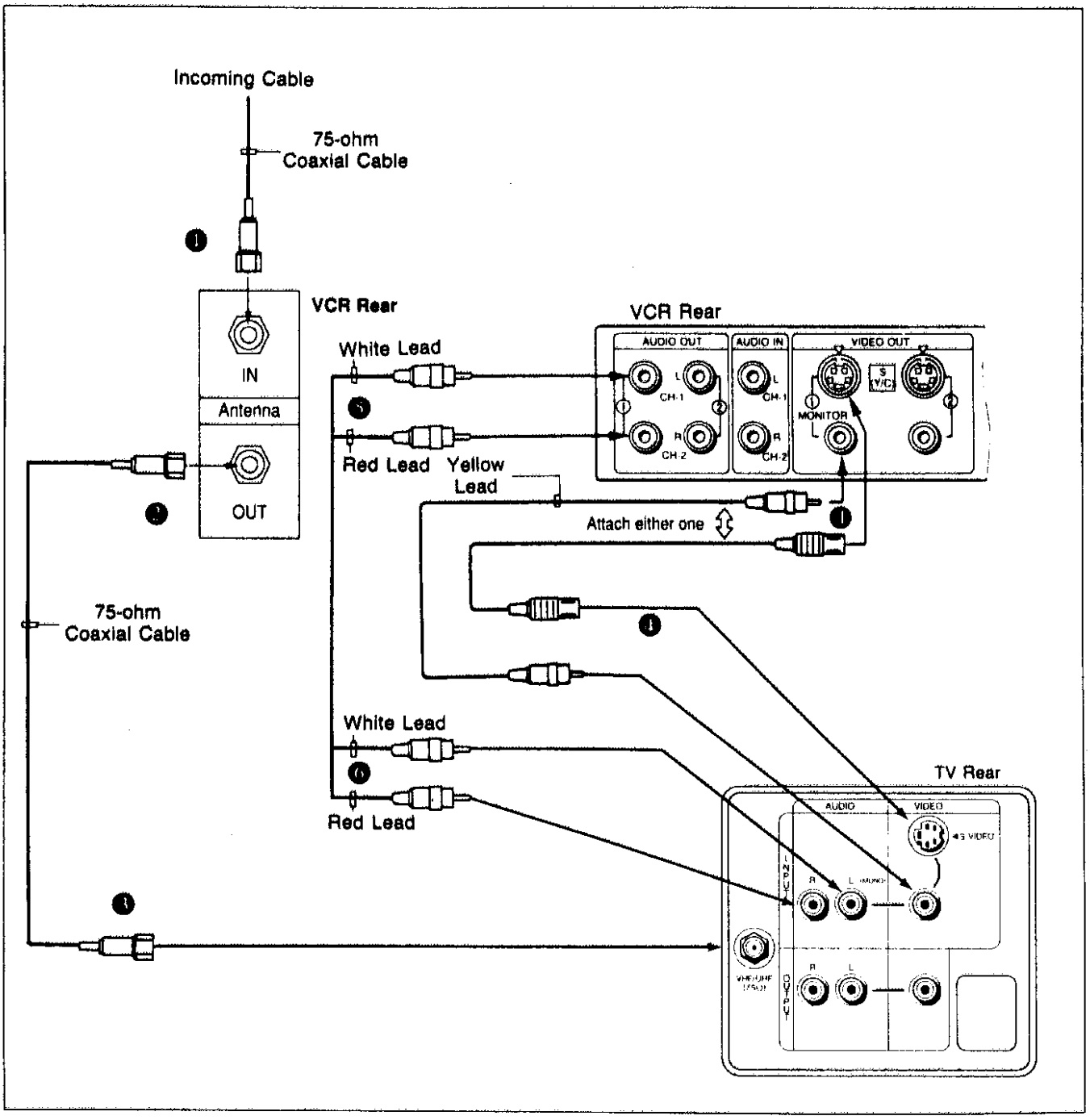
6. Connect the other ends of this cable to the AUDIO INPUT terminals on the back of the television.

▷ **Important:** If your VCR is monaural (non-stereo), you will only connect a single RCA pin-type audio cable. Connect the cable to the VCR, then connect the other end to the L (LEFT) audio input on the back of the television.

7. Set the VCR to the playback mode.

8. Select the external input source by using the INPUT button on the front panel or remote control.

TV + VCR +antenna or cable without a decoder box (cont.)



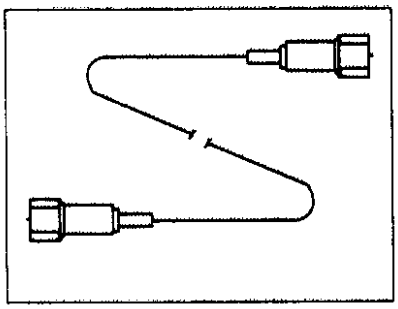
TV + VCR + antenna or cable with a decoder box

equipment you will need

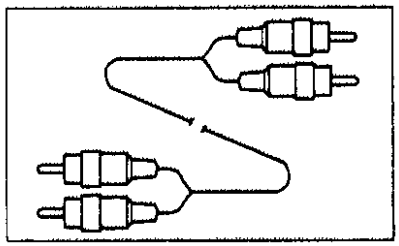
This hook-up will allow you to record scrambled cable channels while viewing another channel.

To complete the hook-up, you'll need:

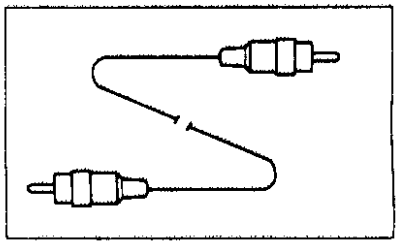
- 2 lengths of coaxial cable,



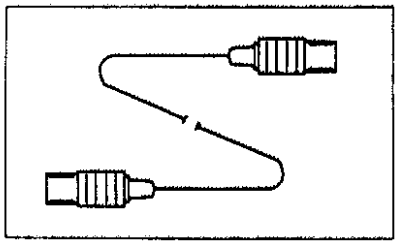
- 1 set of RCA pin-type audio cables,



- 1 RCA pin-type video cable, (if connecting a standard VCR), or



- 1 Super Video cable (S-VHS) for Super VHS VCRs.



TV + VCR + antenna or cable with a decoder box (cont.)

procedure
(See illustration on the following page.)

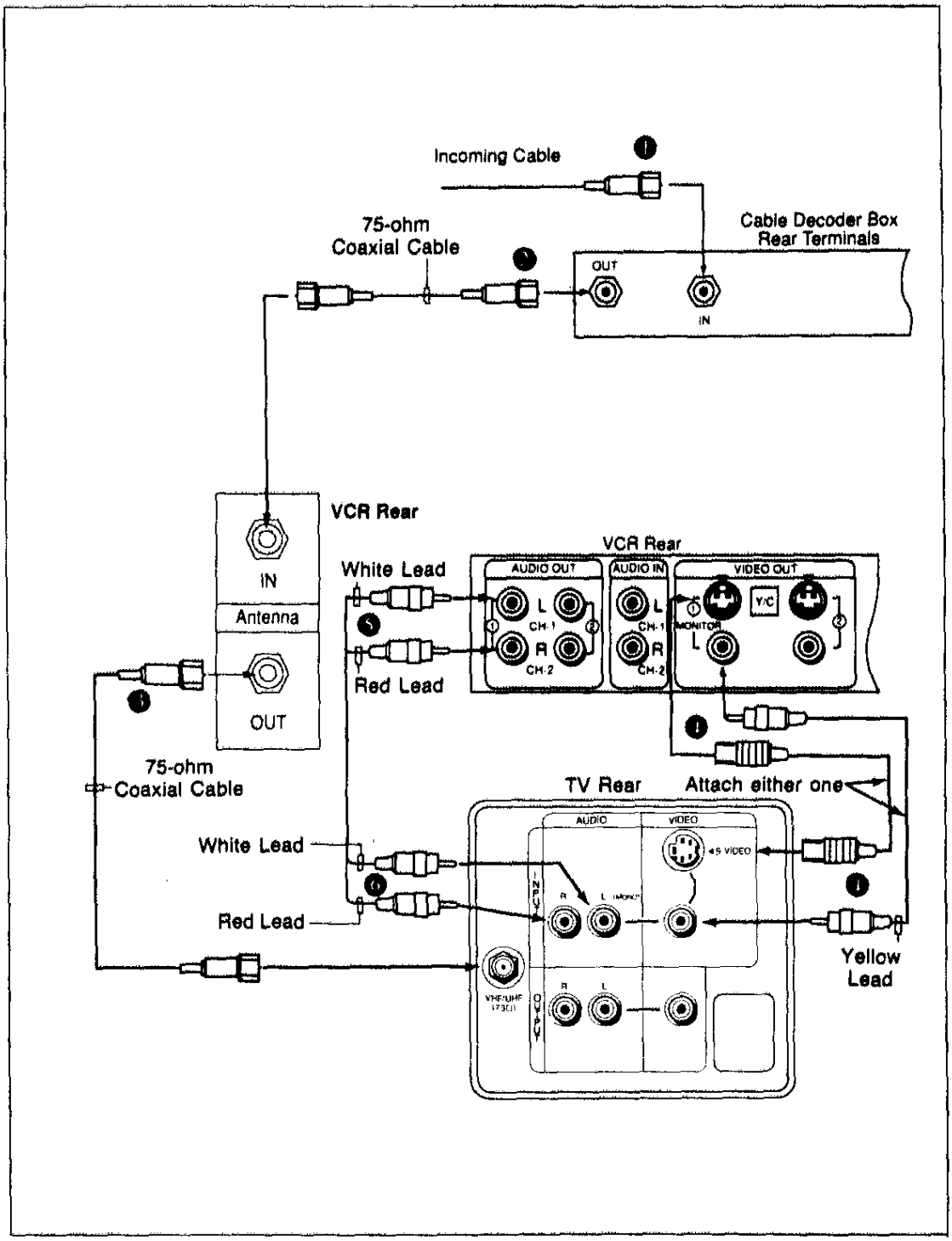
1. Connect the incoming cable to the IN terminal on the decoder box.
2. Connect a coaxial cable to the OUT terminal on the back of the decoder box; connect the other end of this cable to the ANTENNA-IN terminal on the back of the VCR.
3. Connect the second coaxial cable to the ANTENNA-OUT terminal on the back of the VCR. Connect the other end of this cable to the antenna terminal on the back of the TV.
4. Connect an RCA pin-type video cable to the VIDEO OUT terminal on the back of the VCR. Connect the other end of this cable to the VIDEO INPUT terminal on the back of the television.

▷ **Important:** If you are connecting a Super VHS (S-VHS) VCR, use a Super Video cable instead of an RCA pin-type video cable. Connect a Super Video cable to the S-VIDEO OUT terminal on the VCR. Connect the other end of this cable to the S-VIDEO INPUT terminal on the back of the television.

5. Connect a set of RCA pin-type audio cables to the AUDIO OUTPUT terminals on the back of the VCR. Use the red cable to connect the right (R) channel and the white cable for connecting the left (L) channel.
6. Connect the other ends of this cable to the AUDIO INPUT terminals on the back of the television.

▷ **Important:** If your VCR is monaural (non-stereo), you will only connect a single RCA pin-type audio cable. Connect the cable to the VCR, then connect the other end to the L (LEFT) audio input on the back of the television.

7. Set the VCR to the playback mode.
8. Select the external input source by using the INPUT button on the front panel or remote control.

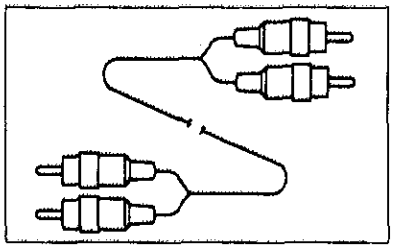

Incoming Cable
75-ohm
Coaxial Cable
Cable Decoder Box
Rear Terminals
OUT
IN
VCR Rear
IN
Antenna
OUT
75-ohm
Coaxial Cable
White Lead
Red Lead
VCR Rear
AUDIO OUT
AUDIO IN
VIDEO OUT
CH-1
CH-2
MONITOR
TV Rear
Attach either one
White Lead
Red Lead
AUDIO
VIDEO
Yellow
Lead

TV + audio system

equipment you will need

To hook-up an audio system you will need:

1 set of RCA pin type audio cables.

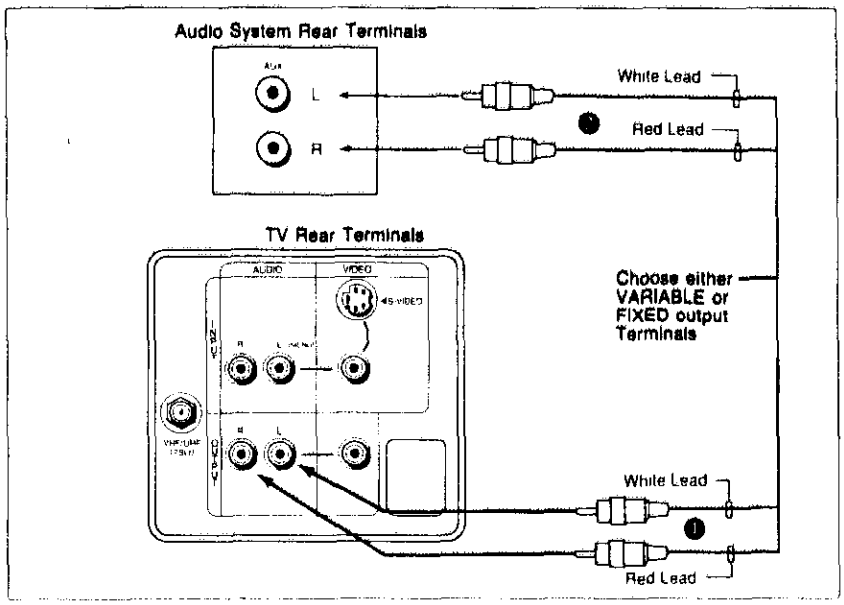


procedure

① Connect one end of the RCA pin type audio cables to the AUDIO OUTPUT terminals on the back of the television. Use the red cable to connect the right (R) channel and the white cable to connect the left (L) channel.
② Connect the other ends of this cable to the AUX IN terminals on the back of the audio system.
③ Turn off the television's built-in speakers. To do this, press the AUDIO function buttons on the remote control until you see the SPEAKER display. Set the speakers to OFF by pressing the ADJUST button.
④ Set the audio system's input to the AUX position.

▷ **Important:** The volume, mute, bass, treble, audio expansion and balance controls of the TV will control the sound through the audio system AUX input.

▷ **Important:** When listening to the TV through an audio system, you will receive the best results if the TV volume is turned all the way up.



CHAPTER 3

Operating Your TV

Now that your TV is connected to the cable, antennas, or external components, it's time to enjoy your equipment. This chapter will explain how to operate the TV, first focusing on functions that are basic and easy and then explaining some advanced features.

This chapter explains:

- **Getting Started**
- **Using the Advanced Features**

◆ Getting Started

This section is designed to get you started enjoying your new TV. If you follow these procedures one by one, you will soon have a picture and can begin discovering everything your television can do.

You will find information on:

- **Using the remote control,**
- **Turning the TV on/off,**
- **Selecting the input source,**
- **Changing channels,**
- **Understanding the on-screen menus,**
- **Setting the clock,**
- **Memorizing channels,**
- **Adding/deleting channels,**
- **Using video mute,**
- **Adjusting the sound,**
- **Adjusting the picture, and**
- **Using the closed caption decoder.**

Using the remote control

Your TV comes with a remote control that not only operates your TV, but can operate many of the functions of your VCR and cable box as well.

The remote control is pre-set to operate Mitsubishi VCRs, but it can also operate VCRs from other manufacturers as well. If you have a VCR from another manufacturer, or if you have a cable box, it is advisable to "set up" the remote control.

▷ **Important:** Each layer (VCR or AUX) can be set for either a cable box or a VCR.

setting up the remote control to operate your VCR

① Turn off your VCR.

② Set the TV/VCR/AUX switch to "VCR" or "AUX."

③ While holding in the POWER button on the remote control, enter the code number listed in the chart below for your brand of VCR. Be sure to enter both digits of the code number. (If more than one code number is listed, try the first one. If that code does not work, try the next one until you find the correct code.)

If your VCR is this brand...	...enter this code	If your VCR is this brand...	...enter this code
Mitsubishi (A)	01	Philips	03, 10, 11
Mitsubishi (B)	02	Quasar	03
Canon	03	RCA	08, 13, 20
Emerson	04, 05	Sanyo	14
Funai	06	Scot	15
GE	03	Sharp	16
Goldstar	07	Sony	17, 18
Hitachi	08	Sylvania	03, 10, 11
JVC	09	Symphonic	06
Magnavox	03, 10, 11	Teknika	04, 06
Multitech	06	Toshiba	15
NEC	12	Totevision	07
Panasonic	03	Zenith	19
Philco	03, 10		

④ Release the POWER button.

⑤ Press the POWER button again. Your VCR should turn on. If the VCR turns on, your remote control is now set to operate your VCR.

If your VCR does not turn on, repeat the instructions above, trying each code number listed for your brand of VCR.

Setting up the remote control to operate your cable box

① Turn off your cable box.

② Set the TV/VCR/AUX switch on the remote control to "AUX" or "VCR."

③ While holding in the POWER button on the remote control, enter the code number listed in the chart below for your brand of cable box. (If more than one code number is listed, try the first one. If that code does not work, try the next one until you find the correct code.)

If your cable box is this brand...	...enter this code	If your cable box is this brand...	...enter this code
Zenith	51	Tocom	67, 68
Hamlin	52, 53, 69	Panasonic	63, 70
Jerrold	54, 57, 58, 59, 60, 85	Macom	71
G.I.	55, 56	Philips	73, 74, 75, 76, 77
Oak	61, 62, 82	Regency	79
Pioneer	64, 65, 84	Texscan	80
S.A.	66, 86	TCI (closed caption decoder)	83
		Gemini	81

④ Release the POWER button.

⑤ Press the POWER button again. Your cable box should turn on. If the cable box turns on, your remote control is now set to operate your cable box.

If your cable box does not turn on, repeat the instructions above, trying each code number listed for your brand of cable box.

▷ **Important:** Sometimes manufacturers will change the remote control codes for their products, or they use more than one code. If this is the case, your remote may not be able to operate your VCR or cable box.

▷ **Important:** When you replace the batteries in your remote control, the remote will return to its initial setting. The VCR layer will be set to control Mitsubishi (A) VCRs; the AUX layer will be set to control Mitsubishi (B) VCRs. Repeat the steps above to reset your remote control.

Using your remote control to operate your VCR

After you have set up your remote control for your particular brand of VCR, you can use the remote to operate your VCR.

① Set the TV/VCR/AUX switch on the remote control to "VCR" or "AUX."

② Point the remote control at the VCR and press the desired buttons.

If you are using a Mitsubishi VCR, you will be able to use all of the buttons on the remote control to operate your VCR except for MUTING, VOLUME, and the PIP function buttons.

If you are using another brand of VCR, you can use the POWER, SCAN, REC, STOP, PAUSE, REW, PLAY, and FF buttons to operate your VCR.

Using your remote control to operate your cable box

After you have set up your remote control for your particular brand of cable box, you can use the remote to operate your cable box.

① Set the TV/VCR/AUX switch on the remote control to "AUX" or "VCR."

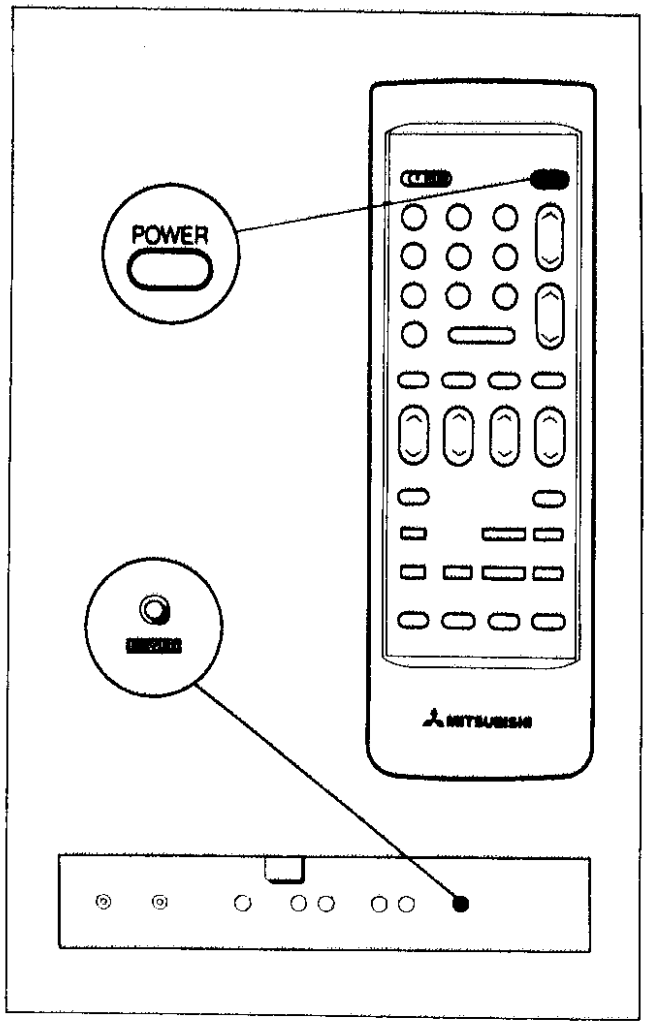
② Point the remote control at the cable box and press the desired buttons.

Only the POWER and SCAN buttons can be used when operating your cable box.

Turning the TV on/off

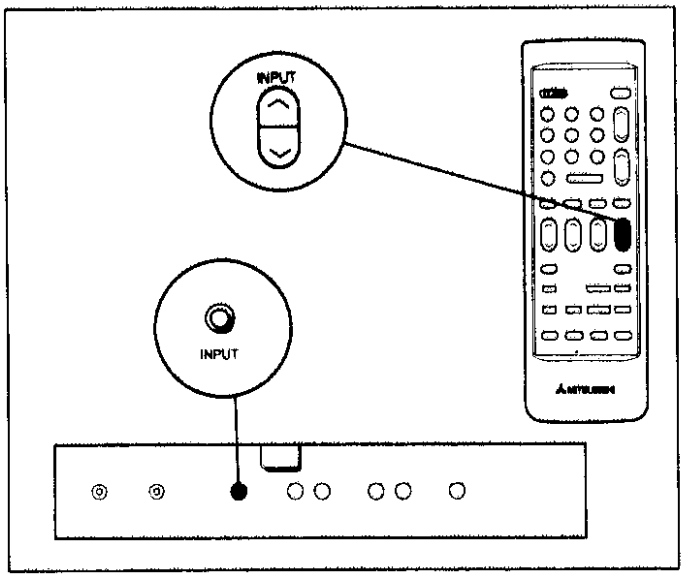
Use the POWER button on either the front panel or the remote control to turn the TV on and off.

Important: Even with the power turned off, there is a small current that continues to flow into the TV. This maintains any changes to the setting as well as operates the built-in clock and timing functions. Unplugging the set will erase these settings requiring that you set them again. Unplug the TV only when it won't be used for a long time.



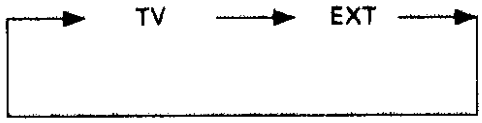
Selecting the input source

Press the input button (INPUT) on the front panel or on the remote control to select the input source: TV or Ext.

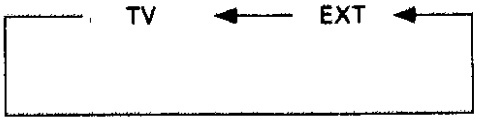


The TV will switch between the following inputs:

INPUT▲ button (on the remote control), or INPUT button on the front panel:



INPUT ▼ button (on the remote control)



Changing channels

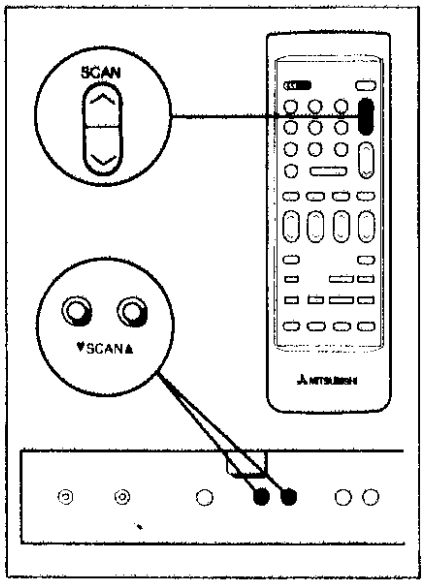
The CS-31301 and CS-35301 offer you four ways of changing channels once their numbers have been programmed into channel memory:

- selecting a channel using the automatic channel scan feature,
- directly accessing a channel by pressing the number buttons,
- using the special quick view option to alternate between the current channel and the last channel viewed, and
- using the super quick view function to alternate between special channels programmed for quick viewing.

▷ **Important:** To change channels faster, use either of the following procedures:

- Enter three digits for every channel number, using zeros where needed. (For example, enter "004" to view channel 4 and "028" to view channel 28.)
- Press the ENTER button after selecting the number of the channel. (For example, press "4" and "ENTER" to view channel 4.)

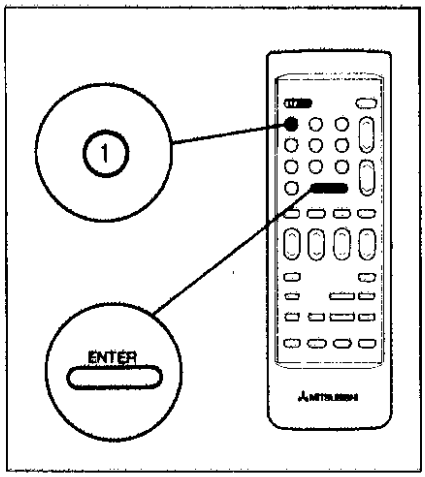
▷ **Important:** Cable stations (CATV) channel numbers 0 and greater than 126 are unassigned. TV stations (TV) 0, 1 and 70 through 999 are unassigned. If these channel numbers are pressed, the channel remains unchanged.



changing channels automatically

To change channels:

1. Press one of the channel controls (SCAN) on the front panel or on the remote control. The TV automatically goes to the next programmed broadcasting station.

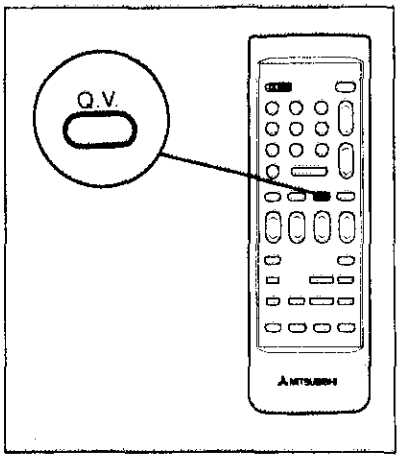


changing channels directly

To move directly to a particular channel without going through the programmed channels:

1. Use the remote control to select the number of the channel you want to view.
2. Press the ENTER button.

Changing channels (cont.)

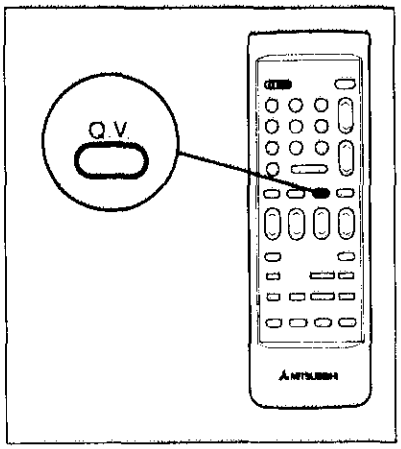


using the quick view option

To alternate between the current channel and the last one viewed:

1. Press the quick view (Q.V.) button on the remote control.
2. Press the Q.V. button again to view the original channel.

▷ **Important:** Quick view (Q.V.) is not available when you operate the Super Quick View (SQV).



entering a channel into super quick view tuning

1. Select your desired channel with the channel control (SCAN).
2. While the channel number is still displayed on the screen, press ENTER. The letters "SQV" will appear under the channel number. If "SQV" does not appear, press ENTER until it does.
3. Repeat steps 1 - 2 until all desired channels are memorized.
4. Press the quick view (Q.V.) button to cycle through the channels you have selected.

▷ **Important:** Up to ten channels can be memorized in Super Quick View. If you try to memorize more than ten channels, the letters "SQV" will flash, telling you that the memory is full. You must delete a channel from memory before adding a new one.

1. Select the channel you wish to delete from Super Quick View memory by pressing the channel control (SCAN) or the quick view (Q.V.) button.
2. While the channel number is still displayed on the screen, press the CANCEL button. The letters "SQV" will disappear from under the channel number, and the channel will be deleted from Super Quick View memory.

Understanding the on-screen menus

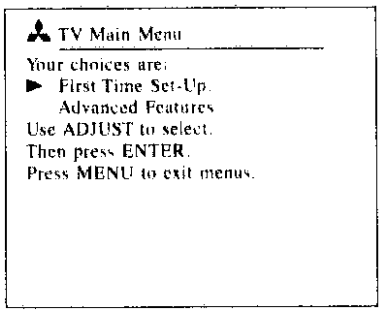
One of the distinctive features of this TV is an on-screen menu system that provides step-by-step instructions for using some of the TV's special capabilities.

When using any of the on-screen menus, you should keep the following in mind:

- The on-screen menus will clear if no item is selected within 5 minutes.
- You can exit the on-screen menus any time by pressing the MENU button repeatedly. You will then return to regular TV viewing.

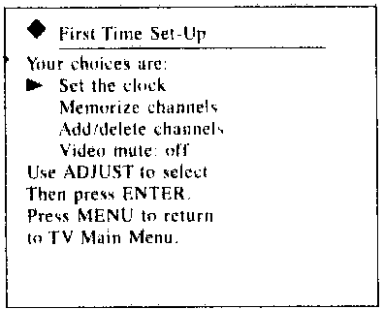
Setting the clock

The CS-31301 and CS-35301 contain an on-screen clock to indicate the current time. To set the clock:

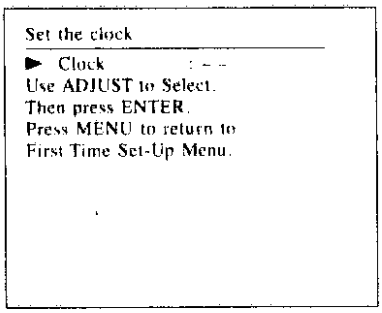


❶ Press the MENU button on the remote control. The TV menu will appear on the screen.

❷ Select "First Time Set-Up" using the ADJUST button; then press the ENTER button.



❸ You will see the "First Time Set-Up" screen. Select "Set the clock" using the ADJUST button; then press the ENTER button.



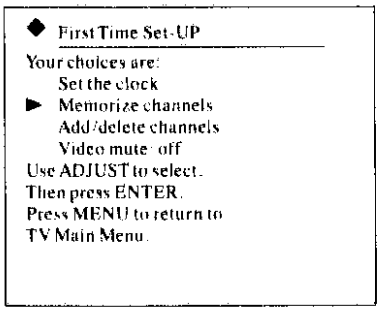
❹ Follow the additional on-screen instructions.

❺ To view the time, press the display (DISP) button on the remote control.

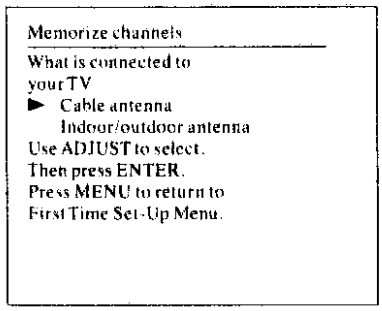
▷ **Important:** After setting Delete Clock, the clock will not start running until you press ENTER.

Memorizing channels

The CS-31301 and CS-35301 automatically memorize the channels you can receive. Once channels are memorized, you can scan through them using the buttons on the remote control and front panel. To memorize channels:



1. Press the MENU button on the remote control. The TV menu will appear on the screen.
2. Select "First Time Set-Up" using the ADJUST button; then press the ENTER button.
3. Select "Memorize channels" using the ADJUST button; then press the ENTER button.

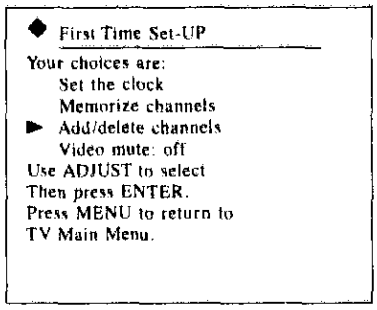


4. Use the ADJUST button to choose the type of antenna you connected: cable antenna or indoor/outdoor antenna. Then press the ENTER button.
5. You will see a message that states that channel memorization is in progress. You may cancel channel memorization at any time by pressing CANCEL button.

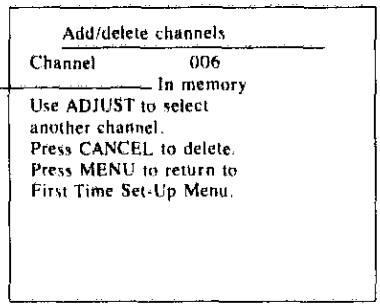
▷ **Important:** The channel controls (SCAN) will work only after channels have been programmed into memory. After memorizing, use the channel controls (SCAN) on the front panel or on the remote control to automatically advance to the next memorized channel. Use the NUMBER buttons to select individual channels.

Adding and deleting channels

After all available channels have been programmed automatically, channels with weaker signals can be added or deleted by using the following procedure.



1. Press the MENU button on the remote control. The TV menu will appear on the screen.
2. Select "First Time Set-Up" using the ADJUST button; then press the ENTER button.
3. Select "Add/delete channels" using the ADJUST button; then press the ENTER button.



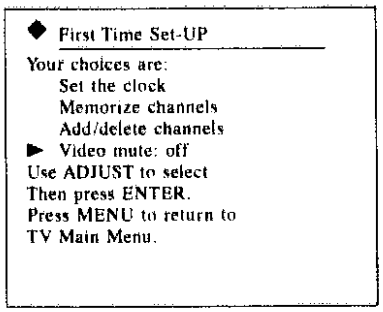
Either "In memory" or "Not in memory" will appear.

4. The "Add/delete channels" screen will appear. Channels that are in memory have the word "In memory" under the channel number: channels not in memory say "Not in memory."
5. Following the additional on-screen instructions, add a channel into channel memory or delete a channel from channel memory.

▷ **Important:** The (SCAN) ▲ button changes to a channel with a higher number; the SCAN ▼ button changes to a channel with a lower number.

Using Video Mute

With video mute on, any blank section of video tape or any station with a weak signal is replaced by a blue screen. The sound is also turned off. If there is a case where you might wish to try tuning in a station that would otherwise be mute, you can turn the video mute off.



1. Press the MENU button on the remote control. The TV menu will appear on the screen.
2. Select "First Time Set-Up" using the ADJUST button; then press the ENTER button.
3. Select "Video mute" using the ADJUST button.
4. Press the ADJUST button to select "Video mute: on." Follow the additional on-screen instructions.

Adjusting the sound

You can adjust all of your television's audio functions by using a pair of buttons: select a function with the AUDIO button and adjust the function with the ADJUST button. You use the ADJUST button to:

- select a position (e.g., stereo),
- increase or decrease the function (e.g., bass),
- shift from one end of a scale to the other (e.g., balance), or
- turn the function on or off (e.g., audio expansion).

After adjusting the sound, an on-screen display will indicate the function and level you've selected.

what you will adjust

"Listen to: Stereo/SAP/Mono" allows you to change the audio reception mode to stereo, separate audio programming (SAP), or monaural (mono), depending on the type of broadcast you are receiving. As you select the reception mode, remember the following:

- The "Stereo" setting allows you to receive both mono and stereo broadcasts.
- The separate audio programming ("SAP") setting offers you the option of listening to either of two separate audio programs. For example, a combination television/radio station may broadcast through the TV.
- The "Mono" setting reduces unwanted background noise when a stereo broadcast is coming in weak. When you use the "Mono" setting, you will hear the broadcast in monaural even when the broadcast signal is in stereo.

▷ **Important:** Mono should be used only when background noise is objectionable. For normal use, set to the stereo mode.

▷ **Important:** An on-screen display appears when programs are broadcast in stereo or when separate audio programming (SAP) is available.

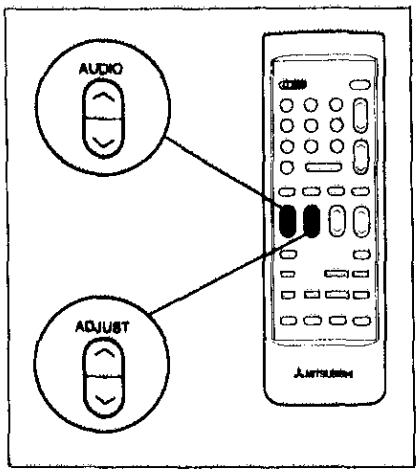
"Bass" controls the volume of low-frequency sound.

"Treble" controls the volume of high-frequency sound.

"Balance" adjusts the level of sound between the left and right speakers.

"Audio expansion: on/off" creates a stereo effect with non-stereo stations or non-stereo external sources.

"Speaker: on/off" turns the TV speakers on or off. Set to "on" for normal operation. Set to "off" if you connected your TV to an audio system.



adjusting the audio functions

1. Use the AUDIO button on the remote control to select one of the functions.
2. Use the ADJUST button on the remote control to adjust the function.

Adjusting the picture

You can adjust all of your television's video functions by using a pair of buttons: select a function with the VIDEO button and adjust the function with the ADJUST button. You use the ADJUST button to:

- shift from one end of a scale to the other (e.g., tint),
- increase or decrease the function (e.g., color), or
- select a position (e.g., color temperature).

After adjusting the picture, an on-screen display will indicate the function and level you've selected.

what you will adjust

"Tint" adjusts the proportion of red to green that determines the delicate tones of color.

"Color" determines the intensity of the color.

"Contrast" controls the level of white-to-black in the picture.

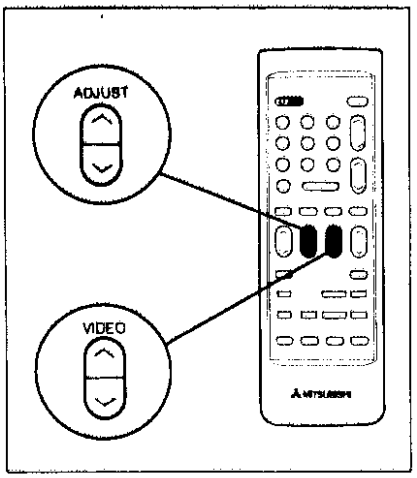
"Brightness" controls the light level of the image on screen.

"Sharpness" adjusts the detail and clarity of the picture.

"Color temp.(erature): High/Middle/Low" is used to change the relative warmth of the picture.

"CC:"
selects the captioning signal you wish to display. See "Using the closed caption decoder," page 57.

adjusting the video functions



1. Use the VIDEO button on the remote control to select one of the functions.
2. Use the ADJUST button on the remote control to adjust the function.

Using the closed caption decoder

Many broadcasters now supply closed captioning information along with their regular broadcasts. Your TV can decode that information and display it on your TV screen.

There are two types of captioning that broadcasters can send: "standard" and "text."

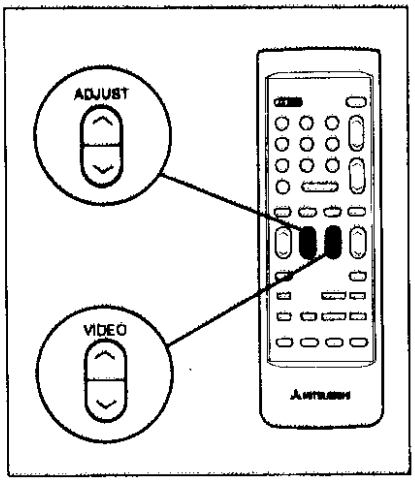
Standard captioning is related to the program that is being shown. Standard captioning usually follows the dialogue of the characters on-screen.

Text captioning does not usually relate to the program being shown. It often contains information such as weather or news. Text captioning often blocks out your view of the program you are watching.

Your TV can decode four different "standard captioning" signals and four different "text captioning" signals on each TV channel. However, each station may be broadcasting only one or two captioning signals, or none at all.

To use the closed caption decoder:

1. Press the VIDEO button on the remote control until the closed captioning (CC) display appears on the screen.
2. Press the ADJUST button on the remote control to select the captioning signal you wish to display.



You can choose to display one of four "standard captioning" signals (indicated by a number), to display one of four "text captioning" signals (indicated by the word "Text" and a number), to display captions when muting, or to turn the captions off.

If you select "when muting," the standard captioning signal 1 will appear whenever you use the MUTING button.

Uses for closed captioning

Closed captioning was initially designed so that those with aural difficulties can enjoy viewing television more. However, closed captioning can also be used in other ways, such as:

- helping children learn to read,
- learning a foreign language, and
- using the television without disturbing others.

▷ **Important:** If you cannot display any captions on the screen, please keep in mind that not all broadcasters, videotapes, or laserdiscs supply closed caption signals.

Additionally, captions will not appear if you are playing a tape or laser disc on a VCR or Laser Disc Player that cannot decode closed caption signals; if you are playing a video tape that is worn or deteriorated; or if you are switching from STILL mode or SEARCH mode to PLAY mode on a Laser Disc player that cannot decode closed caption signals when playing in such a way.

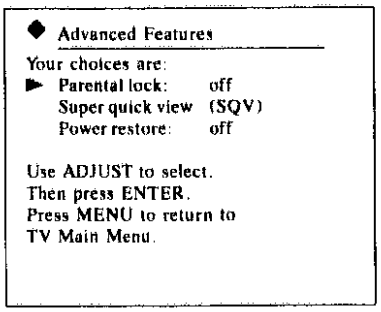
◆ Using the Advanced Features

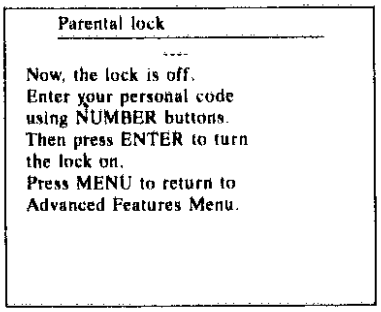
This section explains how to use some of the more advanced functions. You'll learn:

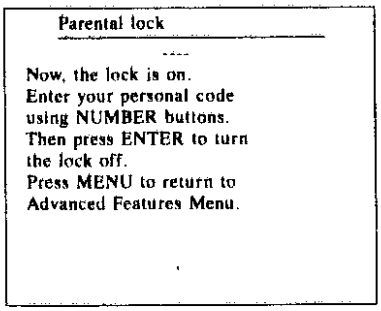
- **using the parental lock,**
- **using the super-quick-view tuning, and**
- **using the power restore feature.**

Using the parental lock

This special feature locks the entire TV to prevent others from watching it.







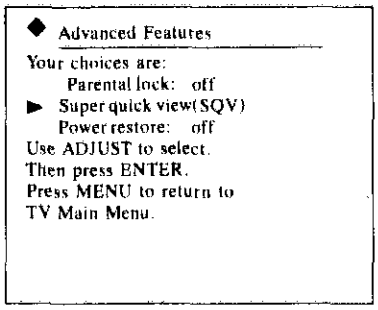
1. Press the MENU button on the remote control. The TV menu will appear on the screen.
2. Select "Advanced Features" using the ADJUST button; then press the ENTER button.
3. Select "Parental lock" using the ADJUST button; then press the ENTER button.
4. The message for setting the Parental lock will appear.

   Follow the additional on-screen instructions.

▷ **Important:** When you set the Parental lock "on," you will see a lock message when you next try to turn the TV on. The only button you can operate is the POWER button. The TV will automatically turn off again if you do not operate the TV in 5 minutes.

Using the super quick view tuning

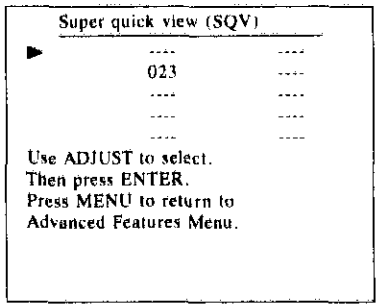
You can set the super-quick-view function with the on-screen menu item "Super quick view" of "Advanced Features" or by using ENTER/CANCEL button. See "entering a channel into super quick view tuning," page 48.



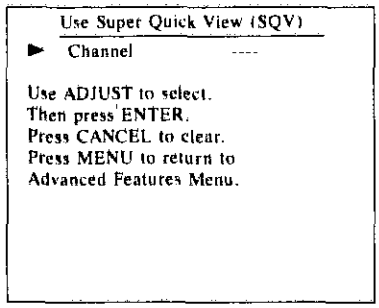
❶ Press the MENU button on the remote control. The TV menu will appear on the screen.

❷ Select "Advanced Features" using the ADJUST button; then press the ENTER button.

❸ Select "delete Super quick view (SQV)" using the ADJUST button; then press the ENTER button.



❹ The instructions for setting SQV will appear. Use the ADJUST buttons to select a position to store a TV channel, then press the ENTER button.



❺ Set the channel number to program into super quick view memory using the ADJUST button. Follow the additional on-screen instructions.

Using the super quick view tuning (cont.)

using the enter/cancel button

< setting the Super Quick View tuning >

1. Select your desired channel with channel control (SCAN).
2. Press the ENTER button while the selected channel is on the screen. The letters "SQV" will appear under the channel number.
3. Repeat steps 1 - 2 until all desired channels are memorized.
4. Press the quick view (Q.V.) button to cycle through the channels you have selected.

▷ **Important:** Up to ten channels can be memorized in Super Quick View. If you try to memorize more than ten channels, the letters "SQV" will flash indicating the memory is full. You must delete a channel from memory before adding a new one.

< canceling the Super Quick View tuning >

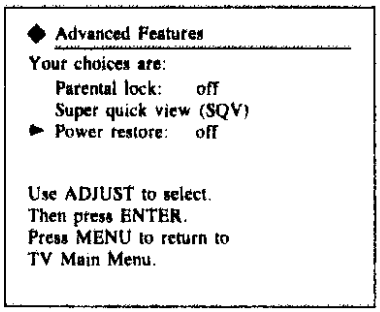
1. Select the channel you wish to delete from memory by pressing the channel control (SCAN) or the quick view (Q.V.) button.
2. Press the CANCEL button while the selected channel is on the screen and the channel is deleted from the Super Quick View memory. The letters "SQV" will disappear under the channel number.

▷ **Important:** When the super quick view (SQV) is operated, quick view (Q.V.) is not available.

▷ **Important:** If the selected channel disappears before you press the ENTER or CANCEL button, press the DISPLAY button to see the selected channel.

Using the power restore feature

When this feature is used, the TV will automatically turn on when electric current is supplied. This feature is useful when, for example, your TV is plugged into an outlet that you control with a wall switch.



To use the Power restore feature:

1. Press the MENU button on the remote control. The TV menu will appear on the screen.
2. Select "Advanced Features" using the ADJUST button; then press the ENTER button.
3. Select "Power restore" using the ADJUST button.
4. Use the ENTER button to switch to on.

   Press MENU to return to the TV Main Menu.

▷ **Important:** In order for this feature to work, you must leave your TV turned on when you turn off the electric current.

▷ **Important:** Even with the power restore on, unplugging the set requires that you reset functions such as the built-in clock and timing functions.

CHAPTER 4

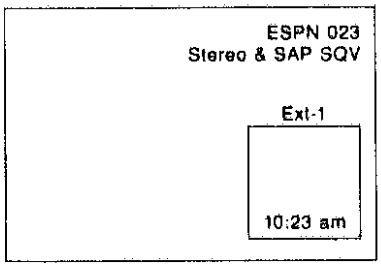
Using the Special Features

In addition to the basic and advanced functions explained in the previous chapter, this TV offers the user several special features not generally available on other brand TVs. This chapter will explain how to use these distinctive features. It contains the following topics:

- **Understanding the On-Screen Displays**
- **Using the Off-Timer**
- **Using the Picture-in-Picture (PIP) Mode**

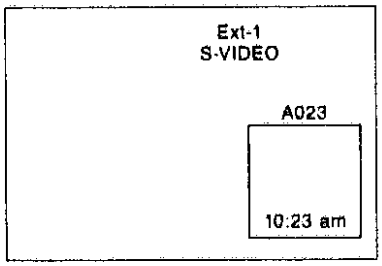
◆ Understanding the On-Screen Displays

Your TV provides an on-screen summary of the current settings for the TV or cable channels, as well as the information related to Television Data Services (TVDS). TVDS allows broadcasters to supply you with the current time, channel information (such as call letters and the network name), and program information (such as the program name and program description). To view this information, press the display button (DISP) on the remote control repeatedly. This section describes the displays in the order that they occur.



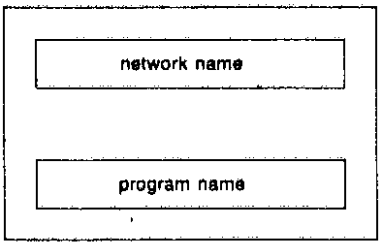
❶ This setting indicates the following:

- call letters,
- input source (channel number),
- stereo and/or SAP are available for reception on this channel,
- this channel is programmed into super quick view memory,
- PIP input source (when selecting PIP image), and
- time.

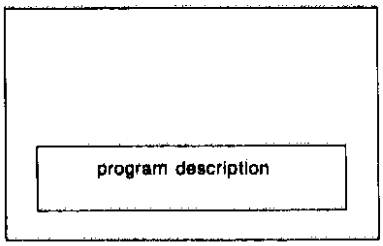


This setting indicates the following:

- input source (external source),
- S-VHS cable has been connected to TV,
- PIP input source (when selecting PIP image), and
- time.



❷ This shows you where the network name and program name will appear if the broadcaster is supplying that information via TVDS.



❸ This shows you where the program description will appear if the broadcaster is supplying that information via TVDS.

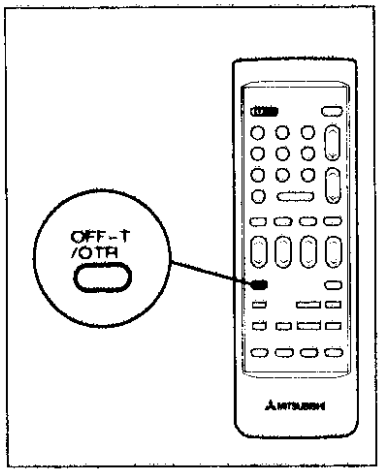
▷ **Important:** If the broadcaster is not supplying information via TVDS, then the message of no data will appear ("No Name Available" "No Description Available"). Additionally, the "call letters" will be blank, unless you have set them with the "Name the channels" feature.

◆ Using the Off-Timer

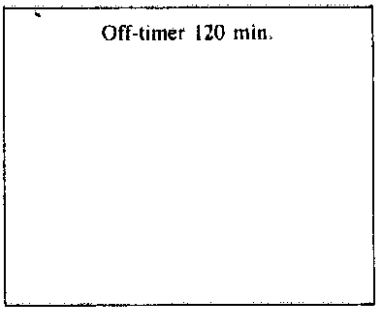
This special function allows you to set the TV to turn off automatically. You can set the TV to turn off from 10 to 120 minutes (2 hours). In this section you'll learn:

- **setting the off-timer, and**
- **changing or canceling the off-timer.**

Setting the off-timer



❶ Press the off-timer button (OFF-T) on the remote control.

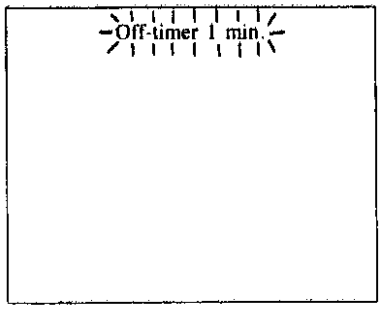


❷ Select how long your want the TV to stay on by repeatedly pressing the off-timer button (OFF-T). The time will decrease in 10 minute intervals each time you press the button.

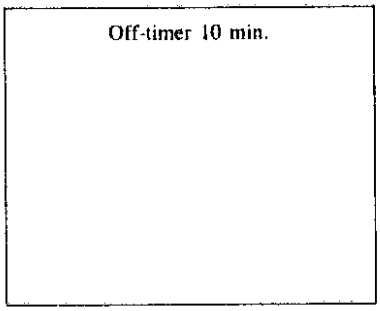
❸ To view the amount of time:

press the off-timer button (OFF-T) once.

▷ **Important:** During the last minute before the TV is set to turn off, "Off-timer 1 min." will flash in red to remind you that the off-timer is set.



Changing or canceling the off-timer



1. Press the off-timer button (OFF-T) on the remote control. An on-screen display will indicate the amount of time remaining until the TV will turn off.

2. Continue pressing the off-timer button (OFF-T) repeatedly to change the remaining time or cancel the off-timer. The off-timer is cancelled when "---" appears instead of the remaining time.

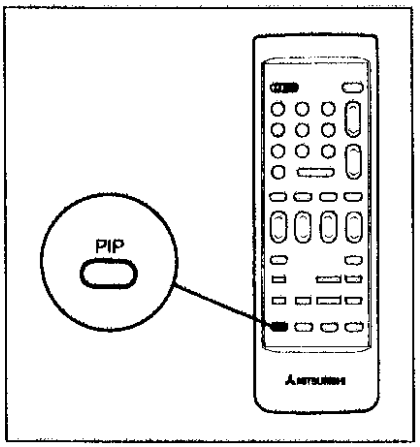
◆ Using the Picture-in-Picture (PIP) Mode

One of the special features of the CS-31301 and CS-35301 is the picture-in-picture (PIP) mode, which allows you to view two different sources at the same time. In this section you'll learn:

- **Selecting the PIP image,**
- **Selecting the source,**
- **Exchanging the PIP image,**
- **Freezing the PIP image, and**
- **Moving the PIP image.**

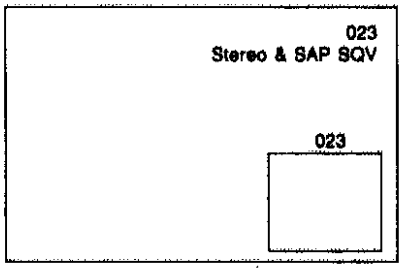
▷ **Important:** You must have a VCR connected to the TV to see two different live action pictures when using PIP.

Selecting the PIP image



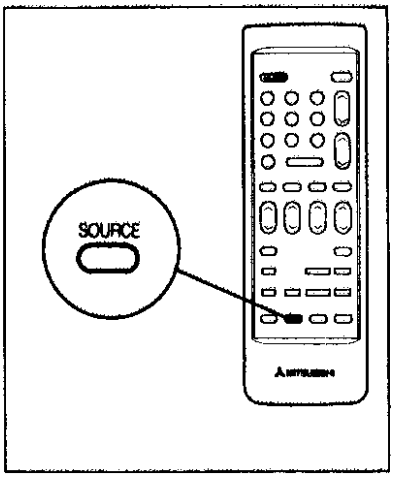
❶ Select the number of the TV channel you want to view by using the channel control (SCAN).

❷ Press the PIP button. A reduced image will appear in the bottom right corner of the screen.

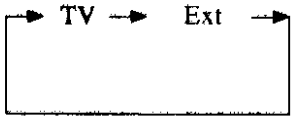


▷ **Important:** When the main image is monochrome (black and white), the PIP image will also appear in monochrome even if the PIP source is in color.

Selecting the source

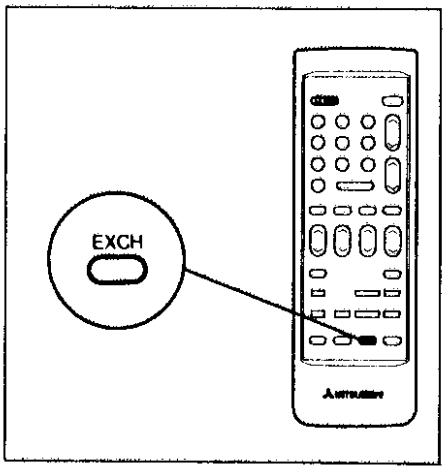


1. Turn your VCR on and select a channel on the VCR that is different than the channel you see on your TV screen.
2. Press the source button (SOURCE) on the remote control repeatedly to select the source of the PIP image: TV or Ext.
3. The PIP image will change as follows.

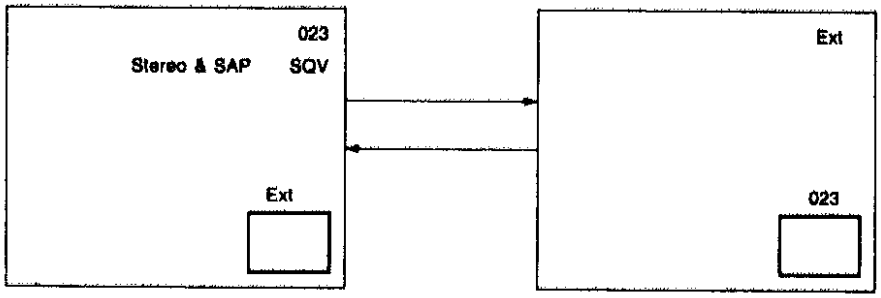


▷ **Important:** To change the background image in PIP mode, press the input button (INPUT) on the front panel or on the remote control.

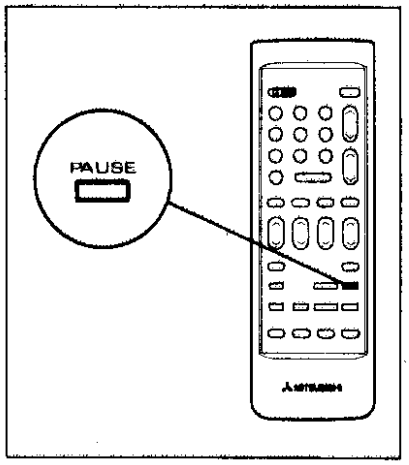
Exchanging the PIP image



Press the exchange button (EXCH) on the remote control to exchange the positions of the background image and the reduced image.



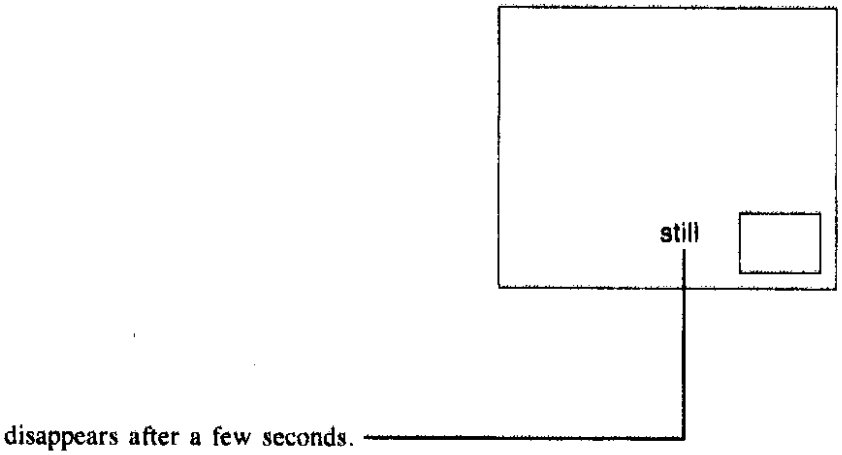
Freezing the PIP image



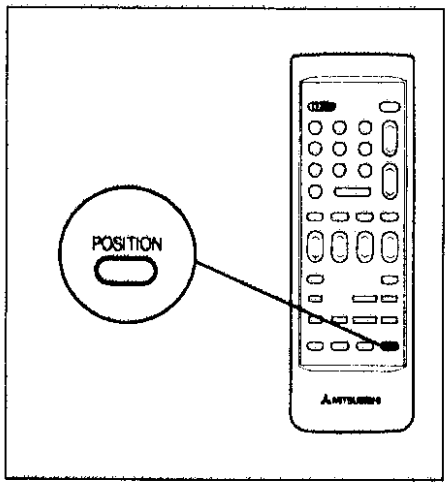
❶ Press the PAUSE button to freeze the reduced image on the screen.

❷ Press again to cancel the frozen image.

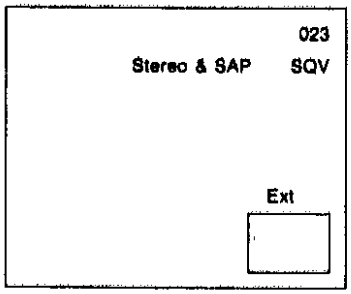
▷ **Important:** When you press the PAUSE button in normal picture, the reduced image will appear and be frozen.

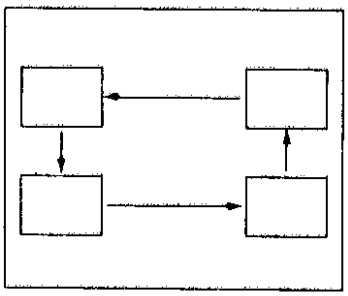


Moving the PIP image



Press the position button (POSITION) repeatedly. The position of the reduced image will appear in each corner of the screen in a counterclockwise fashion.





CHAPTER 5

Troubleshooting

Even though you're now familiar with the basic and advanced operations of the TV, you may run into trouble from time to time as you become accustomed to the CS-31301 and CS-35301. This chapter offers solutions to some of the common problems you may encounter. We suggest that you consult this chart before contacting a Mitsubishi service representative.

Troubleshooting (cont.)

Problems	Possible Solutions	For More Information
• The remote control doesn't work.	• Check that the batteries are installed correctly.	• See "Getting Ready to Use the Remote Control" in Chapter 1 for an explanation of how to install batteries in the remote control
	• Check the TV/VCR/AUX switch is set to TV.	• See "Remote Control Buttons and Functions" in Chapter 1, which explains where the TV/VCR/AUX switch is located.
	• Be sure that you are pointing the top of the remote control toward the TV from a distance of no more than 20 feet.	• See "Getting Ready to Use the Remote Control" in Chapter 1, which contains pointers for using the remote control
• The TV takes several seconds to respond to button commands.	• Use the ENTER key to avoid delays.	• See "Changing Channels" in Chapter 3, which explains the function of the ENTER button.
• You can't access a channel.	• Be sure that the channel you want to view is programmed into memory.	• See "Memorizing Channels" in Chapter 3, which explains how to program channels into the TV's memory.
	• Check that the TV is tuned to the correct input source (antenna) for that channel.	• See "Selecting the Input Source" in Chapter 3, which explains how to change the input source.

Problems	Possible Solutions	For More Information
• On-screen displays appear each time you adjust a function.	• This is part of the normal operation of the TV.	• See "Understanding the On-Screen Displays" in Chapter 4 for a full explanation of the on-screen displays.
• There's no sound even when the volume is turned up.	• Check that the MUTING button isn't on.	• See "Remote Control Buttons and Functions" in Chapter 1, which explains the location and function of the MUTING button.
	• Check the setting of the "Speaker: on/off" function.	• See "Adjusting the Sound" in Chapter 3, which explains how to turn the built-in speaker on and off.
• You forget the code you used to set the parental lock.	• Use the alternate procedure that doesn't require the use of the code.	• See the Appendix "Automatic Procedure for the Parental Lock."
• You can't program the TV to turn on automatically	• The TV may be locked.	• See "Using the Parental Lock" of "Advanced Features" in Chapter 3.
• The sound doesn't match the image on screen.	• The TV's reception mode may be set to "separate audio program (SAP)."	• See "Adjusting the Sound" in Chapter 3, which explains how to select the appropriate reception mode.

Caution and Care

▶ **Warning:**

> Don't leave stationary images, such as those generated from stock market reports or video games, on-screen for more than 10 minutes. Still patterns can scar the TV causing permanent damage to the picture tube.

▷ **Important:** If you plan to place speakers next to the TV, make sure they are magnetically shielded. Ordinary speakers will cause distortion in the picture due to their strong magnets. This distortion, however, will not harm the picture tube.

For maximum enjoyment and safe operation of your MITSUBISHI Color TV, please read the "IMPORTANT SAFEGUARDS" carefully and apply them properly.

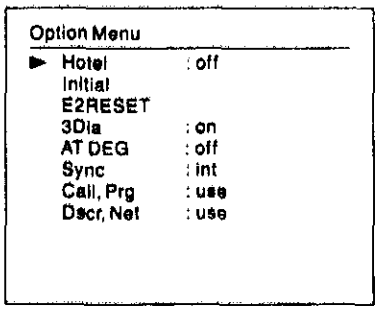
Calling for service

If you are unable to correct the problem, consult your MITSUBISHI dealer or MITSUBISHI Authorized Warranty Service Center.

Do not adjust any controls not described in this owner's guide.

Do not remove the protective back cover of this unit.

If you see the following display on your screen, you should not change any settings. This is a special display used by the factory.



If this display appears, make sure that all of the on/off settings are the same as the illustration above and then turn the TV off. If any of the settings are different than the illustration above, turn the TV off and consult your MITSUBISHI dealer or MITSUBISHI Authorized Warranty Service Center.

APPENDIX

Automatic Procedure for the Parental Lock

Cut along dotted line and file after reading

You will need to enter the code when:

❶ viewing the locked TV or
❷ cancelling the lock.

If you forget the code, you can cancel or view the locked TV without entering the code. To do this, simply press the buttons labeled "Q.V." and "9" at the same time.

▷ **Important:** Unlocking made in this procedure is only temporary. After finishing the procedure, follow the instructions shown in "Using the parental lock" in Chapter 3 to cancel or view the locked TV.

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What's in Each Chapter 12

MITSUBISHI COLOR TELEVISION OR COLOR MONITOR
LIMITED WARRANTY

MITSUBISHI ELECTRONICS AMERICA, INC. ("MELA") warrants to the original purchaser of this television that if purchased from an authorized MITSUBISHI Audio/Video Dealer, should it prove defective by reason of improper workmanship and/or material:

a. **Picture Tube.** For two years from the date of original purchase at retail, we will repair or replace at our option, any defective picture tube without charge for the tube.

b. **Other Parts.** For one year from the date of original purchase at retail, we will repair or replace, at our option, any other defective part without charge for the part.

c. All parts used for replacement are warranted for the remainder of the original warranty period.

d. **Labor.** For one year from the original purchase at retail, we will provide the labor for a warranty repair by an authorized MITSUBISHI service center without charge.

e. **Notice.** To obtain warranty service, you must notify an authorized MITSUBISHI service center of any defect within the applicable warranty time period.

1. TO OBTAIN WARRANTY SERVICE DURING THE FIRST YEAR:

a. Contact your nearest authorized MITSUBISHI service center whose name and address can be obtained from your MITSUBISHI dealer or by writing or calling MELA at the address and telephone number provided below.

b. Warranty service will be provided in your home or, if required, at an authorized service shop, provided that your television is located within the geographic territory customarily covered by an authorized MITSUBISHI service center. If not, you must either deliver your television to an authorized service location at your own expense, or pay for any travel and/or transportation costs the service center may charge to and from your home. Actual service labor will be provided without charge.

c. Proof of purchase date from an authorized Mitsubishi dealer is required when requesting warranty service. Present your sales receipt or other document which establishes proof and date of purchase. THE RETURN OF THE OWNER REGISTRATION CARD IS NOT A CONDITION OF WARRANTY COVERAGE. However, please detach and return the Owner Registration Card so that we can contact you should a question of safety arise which could affect you.

2. AFTER THE FIRST YEAR, to obtain warranty service for a defective picture tube, you are responsible for delivering the television or monitor to an authorized MITSUBISHI service center at your own expense.

3. THIS WARRANTY DOES NOT COVER damage caused by: modification, alteration, repair or service of the product by anyone other than an authorized MITSUBISHI service center; physical abuse to, or misuse of, the product; operation in a manner contrary to the instructions which accompany the product; freight damage; or any damage caused by acts of God such as lightning or fluctuation in electrical power. This warranty also excludes all costs arising from installation, adjustment of user controls, external antenna systems, service of products purchased or serviced outside the U.S.A., initial technical adjustments (set-up) and user-required maintenance. Consult the operating instructions furnished with the product for information regarding user controls.

4. ANY EXPRESS WARRANTY NOT PROVIDED HEREIN, AND ANY REMEDY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION OR OPERATION OF LAW, IS HEREBY EXCLUDED AND DISCLAIMED. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO A TERM OF ONE YEAR.

5. UNDER NO CIRCUMSTANCES SHALL MELA BE LIABLE TO PURCHASER OR ANY OTHER PERSON FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT, OR OTHERWISE.

6. Some states do not allow limitation on how long an implied warranty lasts, or the exclusion or limitation of incidental, special, or consequential damages, so the above limitations or exclusions may not apply to you.

7. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

8. BEFORE REQUESTING SERVICE, please review the instruction booklet to insure proper installation and correct customer control adjustment. If the problem persists, contact your nearest MITSUBISHI Dealer for name(s) of authorized MITSUBISHI Service Center(s). If you are unable to obtain this information, please call 800-332-2119, or write us at the address below.

MITSUBISHI ELECTRONICS AMERICA, INC.
P.O. Box 5025
Norcross, GA 30091-5025

MITSUBISHI

RETAIN THIS PORTION FOR YOUR RECORDS.

MODEL NO. _____

SERIAL NO. _____

CUSTOMER NAME _____

STREET ADDRESS _____

_____

CITY _____ STATE _____ ZIP _____

PHONE ( ) - _____ PURCHASE DATE ____/____/____
A/C MO DAY YR

PLACE OF PURCHASE _____

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